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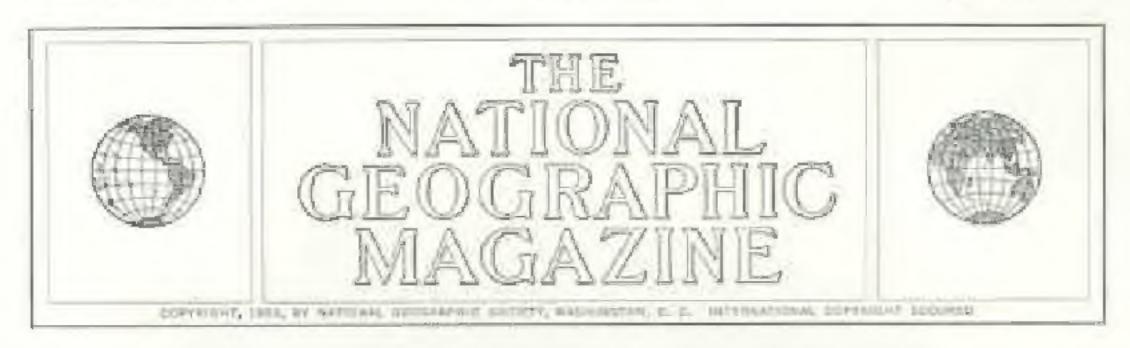
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# From America to Mecca on Airborne Pilgrimage

A Moslem Student at Harvard Business School Records Islam's Sacred Rites in Color in the Interest of World Understanding

By ABBUL GHAFUR SHEIKH

With Illustrations from Photographs by the Author

ROM every land, by every route, we came, driblets and droplets of humanity trickling down from distant mountains and from far-off ancient cities until over the whole scope of Islam our stream became in time a river, and our river a tide.

We flowed, at the command of the Prophet, toward Mecca. "Verily," the Koran says to us, "the first house founded for mankind to worship in Is surely at Mecca, a blessing and a guidance to the worlds." To visit it at least once before we died, if at all possible, was our duty and our privilege.

We pilgrims numbered nearly 500,000; about a third were women. Some, trudging down dusty roads from Central Asia toward India, had already been a year or more upon the way. Others, journeying in the stifling holds of freighters and tramp steamers, made their slow passage from South America or the green Islands of Indonesia (1949, page 9).

# Magic Corpet from New York

Still others, traveling by night under the desert stars, plodded eastward by camel from Meknes and Fes and the sandy wastes of Libya. Not a few still squatted on the wharves of Istanbul, Dubrovnik, Algiers, Gaza, Bizerte. Piraeus, waiting with baggard patience for a place on some crowded open deck.

But I, I came from America by magic carpet. Standing at the New York International Airport, I had attered the pilgrim's traditional prayer: "Lord, roll up the earth for me!"

And it had been done. Oceans, countries.

continents had fallen away beneath the wings of my Pan American Clipper until, on August 26, the sixth day of the Moslem month of Dhu I-Hiljia, I stood at last before the Great Mosque of Mecca. I entered it by the Gate of Salvation and passed thence through the inner Gate of the Sons of the Old Woman.

# Before the Black-draped Kasha

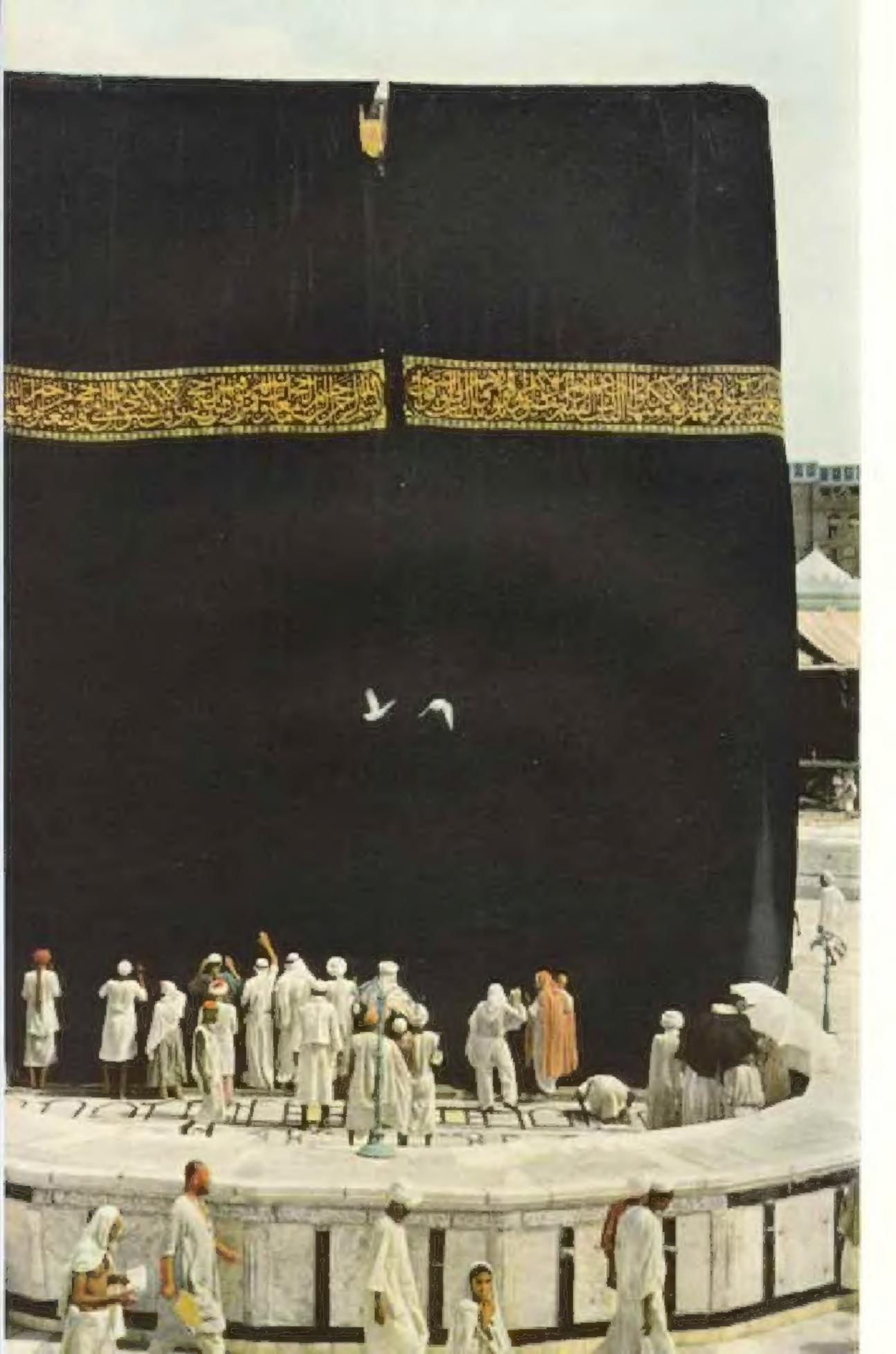
The dawn sky above Mecca was pale, and the air under the archway dank and cold. Two pilgrims hastening to prayers brushed by me, padding on brown bare feet. I gave them greeting, pressed forward, and emerged suddenly within the courtyard.

There, beyond the wide, stone-set pavement, stood the House toward which all Mos-

# The Author

Abdul Ghufur Sheikh is the third son of a prominent East African businessman and philanthropist. Sheikh Fuzal Bahi, who came to Kenya in 1898 from what is now Pakistan. Prospering mightily. Sheikh Fuzal Bahi has set up the Sheikh Charitable Trust for weifurg work in the Near and Middle East. To manage it he chose Abdul Chufur and sent him to Durtmouth College and Harvard Graduate School of Rudness Administration.

Last year 21 year-old Abdul Ghafur came to the National Geographic Society's headquarters in Washington and announced his intention to go on had; to Morea during his vacation. He wished to make a photographic record of the pilgrimuge as a means of interpreting Islam's sacred rituals to the West Though he had had little experience in color photography, he saltied forth with two small cameras lent by The Society and returned with the extraordinary photographs which illustrate this article – Editor.



lems, the world over, turn their hearts: the Kaaba black-draped, severely square, immense. Unforced, the words of the Talbiva came to my lips:

"Here am I, O God, at Thy command! No

equal hast Thou; here am 1.

A breeze filtering down from the barren hills moved the skirt of the Kanba's covering and let it billow and ripple in gentle folds. I felt a deep sense of humility. Part was that bumility natural to any Moslem standing before the Presence: in the belief of Islam, Abraham built the Egabs at the command of God. But part sprang from another sourcethe knowledge of my mission in this place,

For I had set myself a task with few precedents in the long history of Islam: to take in color, if I could, a full pictorial record of my

religion's sacred rites.

# Permission from a High Official

My purpose was simple and clear—to bring the West a richer knowledge of Islam, its high festivals and their meaning. To more than 370 million Moslems, the had i, or pilgrimage, has a central, living significance. Surely, I thought, if I can convey to the outer world in words and photographs some measure of that great pageant's importance to men of my faith. I shall have advanced, by at least a little. man's understanding of mun.

I had been careful, of course, to obtain the permission of a high Meccan official. Until fairly recent times such permission would have been almost impossible to obtain, and sealors among the faithful who flock to the

sonctuary might have attached me.

Why would realots have considered my photography impious? First, because Mohammed baraned all representation of the buman form sculpture, painting, murals -so

# The Kanba: "Navel of the World" Photographed in Full Color by a Devout Moslem

Mosferm believe that Abraham built this cube of basalt blocks at the command of God. The cartain's gold embroidery rites verses from the Korse in

Arable To puy homose at this body of homes forms one of the five basic obligations of Islam. The other four to observe the fast of Ramudan; to recite the bellef that "There is no god but God, and Mohammed in His Prophet": to pray two times a day; to give to the poor one-fortieth of one's wealth.

Musleus contropting the Kaaba weep wait, and prostrate themselven; they kiss its muntle and drench if in costly perfument of meanly stand in awestruck contemplation. On rare occusions, when rain pours from the Knubu's gift Waterspoul of Mercy, pilgrims vic for each drop of the heaven-charged moisture.

No planes are permitted to pass over the Kaaba. Even the doves (so the devict report) by around

but never above it. (See also passes 16-15.)

the Arab would not return to the worship of images as idols. Second, because to bring a camera into a shring of Islam would, in their eyes, deble the holy place."

From beneath my ibram—the two seamless shrets which make up the pilgrim's garb-1 drew my light meter. As I had surmised, the day was yet too young, contrast in color still too faint. Later in the day, when the sun was higher. I could return and commence the thorough photographic coverage of the mosque which I desired.

Now, however, I must resume my role of pilgrim. I stepped out into the courtyard to begin my own tanged—the sevenfold circuit of the Kasha which each had it must perform on at least three occasions; when he first reaches Mesca, when he returns from the Stoning at Mina, and when he says farewell to the city

on his last day (page 28).

Three laps of the tawaf must be accuraplished at a trot, the other four walking. I knew not the special prayers which the guides recite for their followers, but I offered those phrases which welled most naturally to my tongue. The circumambulation, an old custom, is a means of turning the thoughts of pilgrims upon the soul's own seeking after the Lord. For such a journey, I thought, no paid guide was truly necessary.†

By this time, however, many thousands of eager, early-rising pilgrims had entered the square and with ecstatic indifference to those around them were jogging past the shrine, some chanting, some weeping, some strack dumb in contemplation of this, the "navel of the world." Caught up in this throng, crushed shoulder to shoulder, check to jowl, I was soon no longer capable of independent motion but surged forward like a chip on a racing

\* Editor's Note

Some years and pilarius would have thought it sacrilemens to photograph the Kaaba and other sacred shrines. Indeed, realets might have attacked anyone displaying a camera. But today comparatively few Moderns believe a phutograph breaks Moharumes s ban; even to go abroad on a had they must have a trassport photograph.

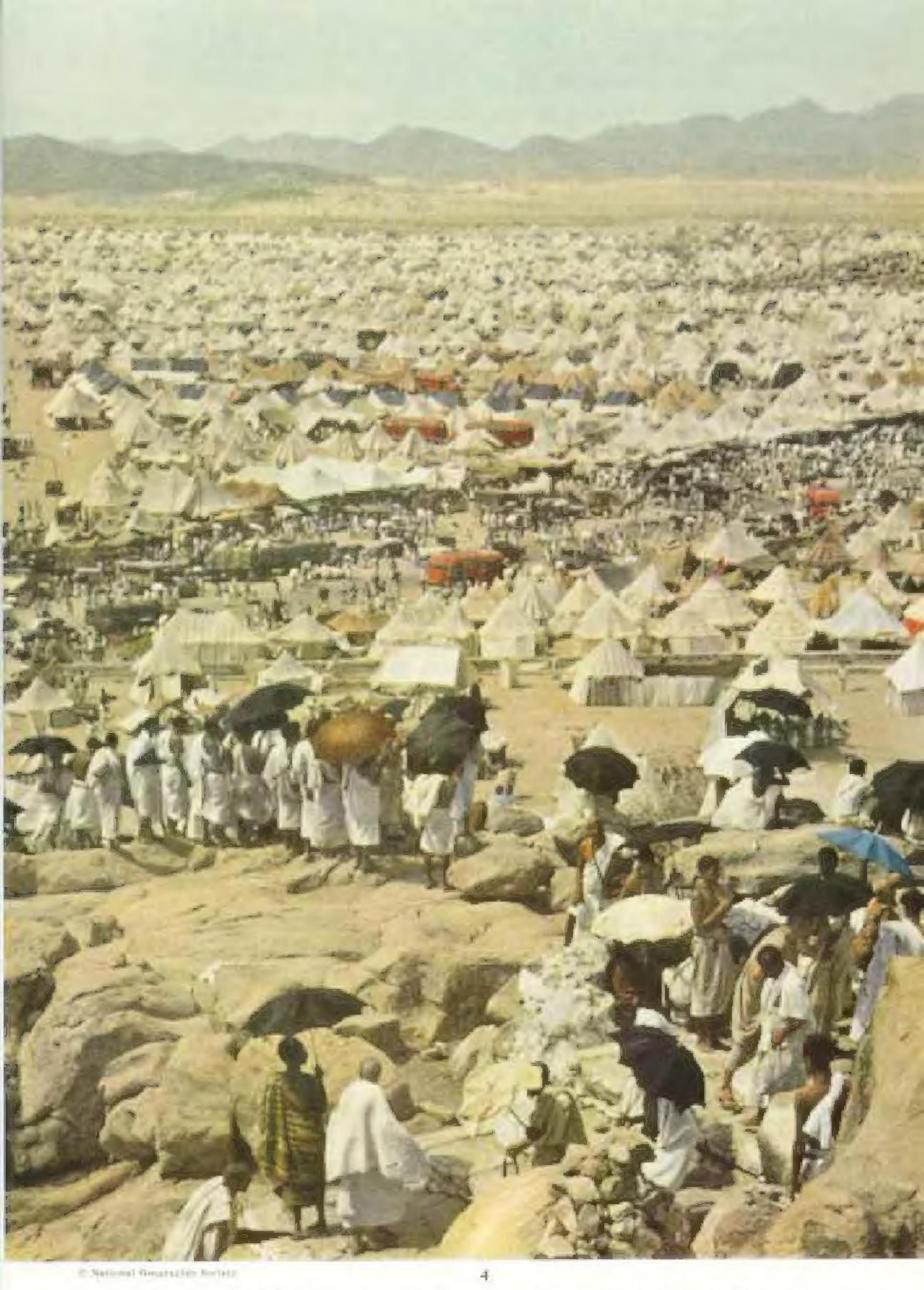
With increasing freq ency, approved Moslems are permitted to record to had on him. In fact, the great pilgrimage is lavistly illustrated in Arabic language newspapers, and souvenir photographs are available in thops ofar the rules of Mecca's Great

Mosque.

title.

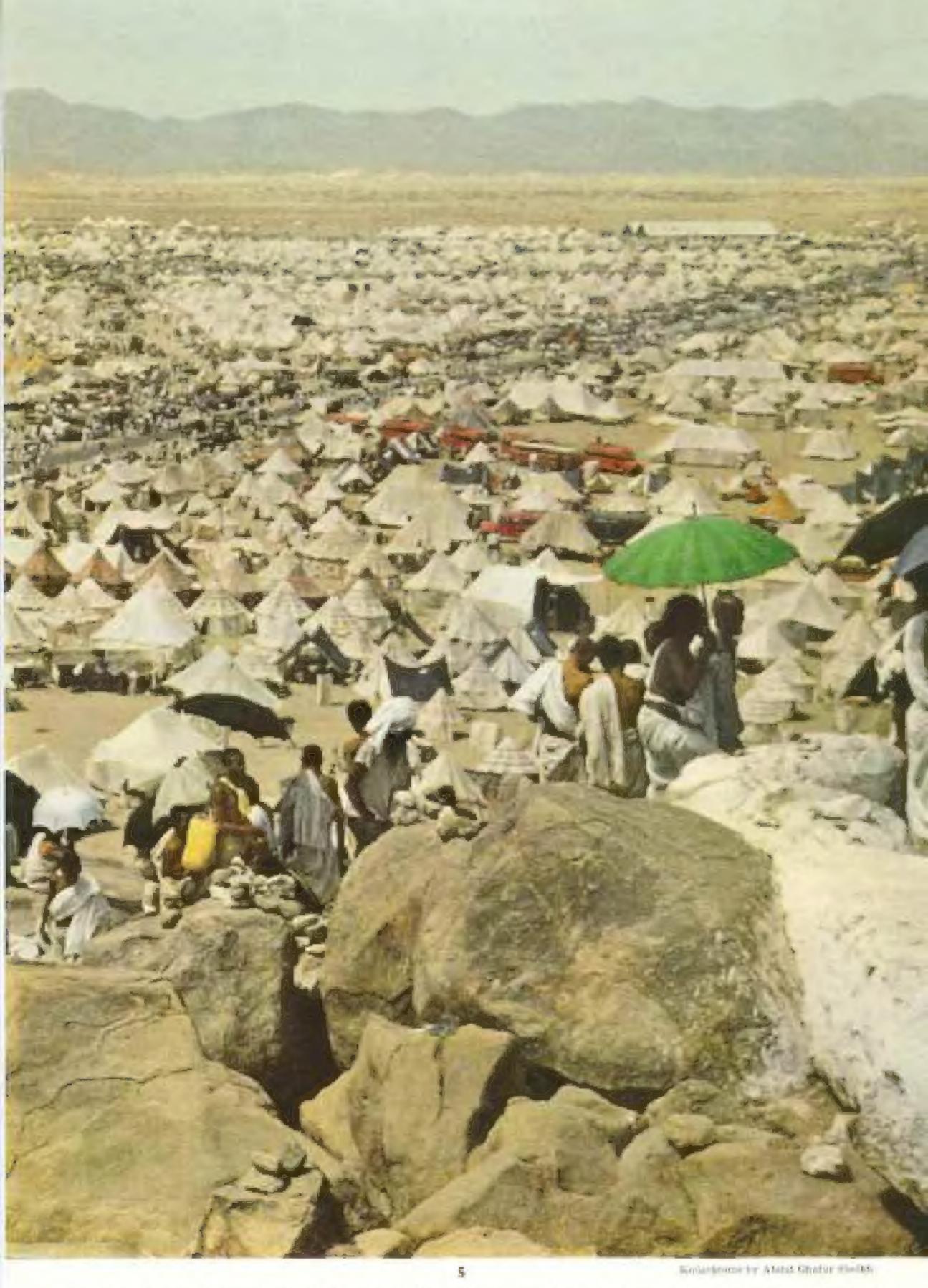
Nevertheless, scenes such as the ones which accompany this gracle are still turn in Vestiral publications. This reverent and fully illustrated record of the great calerimoge to Mecca was made possible when one of the progressive officials of the Saurij Arabian Government granted Abdul Shafur Sheikh permasion to make the photographs.

2 See "Pilgrim's Progress to Mocca." 27 illustrations in dintone, National Geographic Magazine, Novem-Ref. 1937.



On the Tented Plain of 'Arafa, 14 Miles from Mecca, \$00,000 of the Faithful Convene

No Modern can truly say he has made the had), or caesed pilgricuage, unless he has stood at 'Arain before sunset on the appointed day. At twilight the throng breaks camp and rushes pell-mell for the road to Murdalita.



Here Mohammed Prayed on His Last Pilgrimage. The Devout Repeat His Steps and Prayers Moslem legend holds that Adam and Eve met on this spot after expulsion from Eden. Goal of a Standing, or gathering, is an attendance of 600,000. If fewer appear, angels are supposed to descend and make up the difference.

I was fortunate in one thing: before me ran a gaunt Moroccan reciting verses from the Koran in a voice at once majestic and exquisitely tuned. Arabic, and most particularly the Arabic of the Koran, carries the pitch of poetry with ease and emphasis, and on the lips of a gifted declaimer it can weave a rare enchantment. So, as the great crowd bore me onward in our counterclockwise rotation, I drank in my companion's words as one athirst.

Such pleasure served to offset in part the pain given me in another quarter. Being in a mosque, of course we wore no shoes. I was glad that all pilgrims must pare their nails before beginning the hadi, for with each stride the Bedoulus behind me trod on my bare beels with their calloused feet. Before I had finished my sixth lap and kissed the Black Stone embedded in the Kaaba's eastern corner (page 27), my feet were painfully bruised.

Eventually I limped from the mosque by the Safa Gate and began the ritual of running between the hills of Safa and Marwa. Here, in Moslem legend, Abraham left Hagar in the desert with her son Ishmael. Rushing frantically from one spot to another, she searched for water, until the angel Gabriel led her back at last to a spring which bubbled up miraculously near the child's feet.

That same spring. Moslems believe, now feeds the well of Zemzem within the Great Mosque. By their "running," pilgrims commemorate each year the mother's anguish and

her amazed discovery.

# Dhahran to Jidda-by Air

The route of Safa-Marwa flanks one side of the mosque and intersects the city's most turbulent bazaars (page 56). It was still early when I commenced my seven courses to and fro, but already men througed the coffeehouses and merchants bawked their wares. With burning lungs and aching feet I flung myself into the crowd and was buffeted at every step.

I made my devotions as best I could, though compelled to concentrate as much upon keeping my balance as upon maintaining a humble and attentive heart. When I had sidestepped the last gesticulating merchant and had uttered my culminating prayer. I withdrew, panting, to the waiting chair of a harber for the ceremonial trimming of hair which follows the Safa-Marwa.

Much I had to ponder, and not least the question of where I was to lay my head that night and for the nights to come. My father was to have joined me in the city this day, flying from Damascus to Jidda, Mecca's Red Sea port, and driving inland by car. He kept a house in Mecca; but I had knocked upon its door and found it locked, unoccupied, and

I feared he had been grounded and his application rejected by airlines swamped with insistent hadjis.

I myself had reached Jidda only through the timely help of Aramco, the Arabian American Oil Company, which had found me, its guest, stranded in its headquarters town of Dhahran. With kind efficiency the company's officials had hustled me aboard a plane carrying cargo and assorted pilgrims southwestward into the Hejaz, the coastal Arabian province along the Red Sea.

# Airborne Passengers Jubilant

We were a jubilant lot. Gazing down upon the coppery rock and sand, the camel's-thorn and fields of outcropped lava, we blessed our propedrawn steed for the discomfort it was sparing us, the hours of tedium and torment which had been the fate of earlier caravans.

Most of my fellow passengers had changed into the ibram, and they upbraided me for laxity. "For this," they decreed, "you must sacrifice an extra goat at 1d al Adha"—the day of sacrifice which we should celebrate.

later in the hadj, at Mina.

We found Jidda hot with the damp, vindictive heat of the Red Sea, stifling, devitalizing; and the hordes of pilgrims which each ship or plane loosed upon its dusty streets seemed to raise the city's fever another degree (pages

20, 21).

There was little to tempt one to prolong his stay in Jidda. Most pilgrines, and I among them, hastened to procure passage for Mecca, 45 miles away. In the courtyards of old hostelries I could hear the cameleers helping their passengers climb aboard the rickety bamboo-framed litters in which they would ride to the holy city, and then the sharp "Yahh! Yahh!" as the guides kicked and prodded their beasts upright.

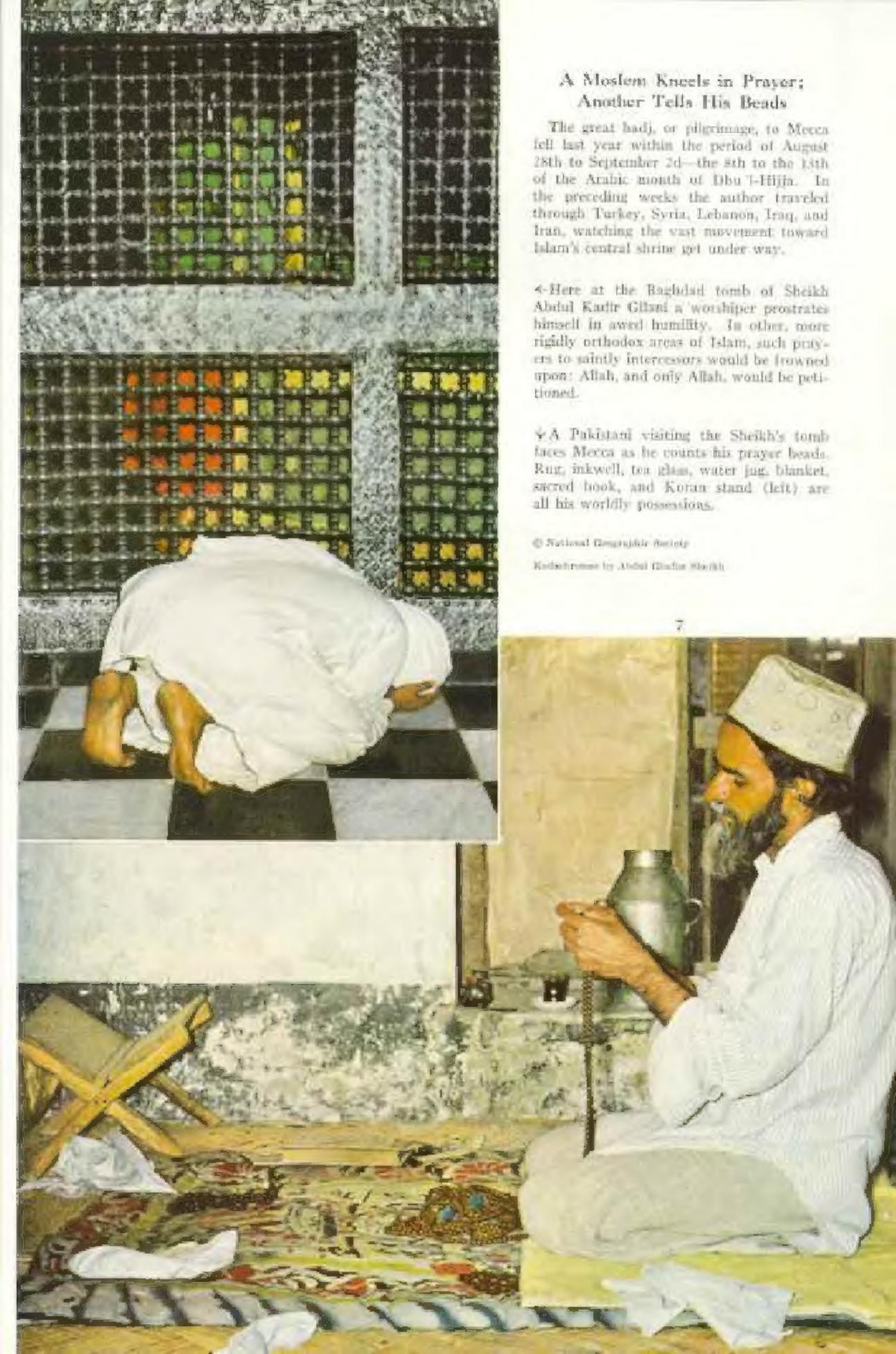
Many such caravans filed out into the desert and were lost to our sight in the haze, and not a few pilgrims set out stubbornly on foot because they thought that they gained in favor by walking the entire distance. But for the most part the hadjis traveled by bus

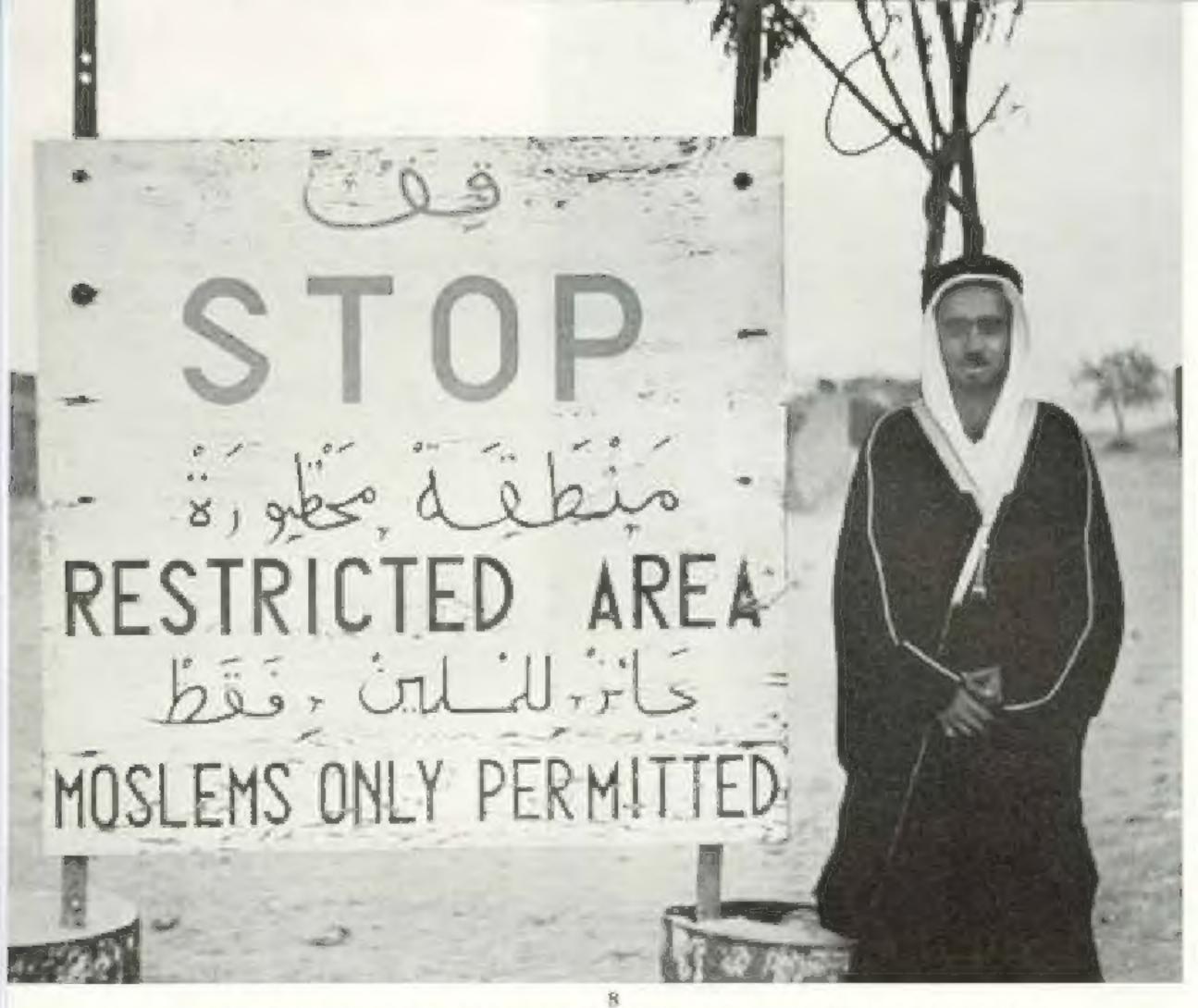
and by car.

# No Non-Moslems Allowed

I was fortunate in this, that an official of Mecca sent down his own car for me and for my friend, Hadji Fatch Mohammed. Jidda we left in darkness, but the driver knew the route like the back of his brown hand, and he guided us uncringly to the several places of visitation along the way where the Prophet had rested during his travels. Here we washed and prayed and drank little cups of coffee and went on.

Again and again our car pulled to a halt





Looking More Like an Arab than a Harvard Student, the Author Nears Mecca

Few non-Modern travelers are known to have penetrated Islam's boliest sectors. First European to enter in disguise was Euclovico di Varthema of Bologna in 1503. Best known was Sir Richard Burton, the English explorer. The present author, a Pakistam Modern born in Nairobi, Kenya, here stands beside a sign midway between Jidda, port of entry for pilgrims, and Mecca, Islam's body city.

at check points, and Sandi gameds peered in the windows and examined our credentials. The guards' aim seemed largely to make certain no non-Moslem should penetrate the restricted sector.\*

For three hours we traversed the straight and level way, and then, topping a ripple of low hills, we saw abruptly the lights of Mecca. Shadowy the city nught be, but in my mind's eye bright with the luster of history. For, long even before the coming of the Prophet, Mecca was renowned as a key point upon the myerb and frankincense route which caravans followed from Paintyra to Sheba. Here came spices and fruits from Yemen, ivory from Ethiopia, fair women from Damascus, shaves from Egypt. Here too stood the images of sundry gods worshiped by the tribes, and a strange cubical building, the Kaaba, around whose origins clung many a legend.

Now, in the wavering light of weak oil lamps stationed at the street corners, I could make out on either side of the car the ragged outlines of tin-roofed shacks, the hovels of the poor. A half mile beyond appeared an encampment of guns, tanks, trucks, jeeps display window of the King's armed might in the Hejaz.

# Into the Ancient Holy City

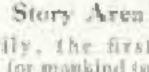
In another moment, clearing the last guard post, we plunged into the narrow, twisting, bazaar-flanked streets of the city proper and fought our way toward its heart (pages 24 and 25). Ancient houses, fretted with projecting wooden balconies, leaned over us at a tipsy angle. A policeman walked ahead, rapping on the bood of our car with his stick and crying "Vallah, vallah! Get out of the way!" to pilgrims slumbering on the cobbles, slack-jawed obstinate camels, men pushing carts.

\* See, in the Narional Generalize Manager: "An Unbeliever John the Hadj," by Oven Tweedy, June, 1934, and "Mecca the Mystic," by Dr. S. M. Zwemer, August, 1917.



### \* The Moslem World

From the Near East sprang all three of the world's great monotheistic religions: Judaism. Christianity, and Islam. Born in Arabin's capital, Mecca, more than 11 centuries ugo, Islam at first met strong opposition and won few followers. But, today. with some 370,000,000 adherents, the Moslem religion exerts a powerful influence through a wast area.

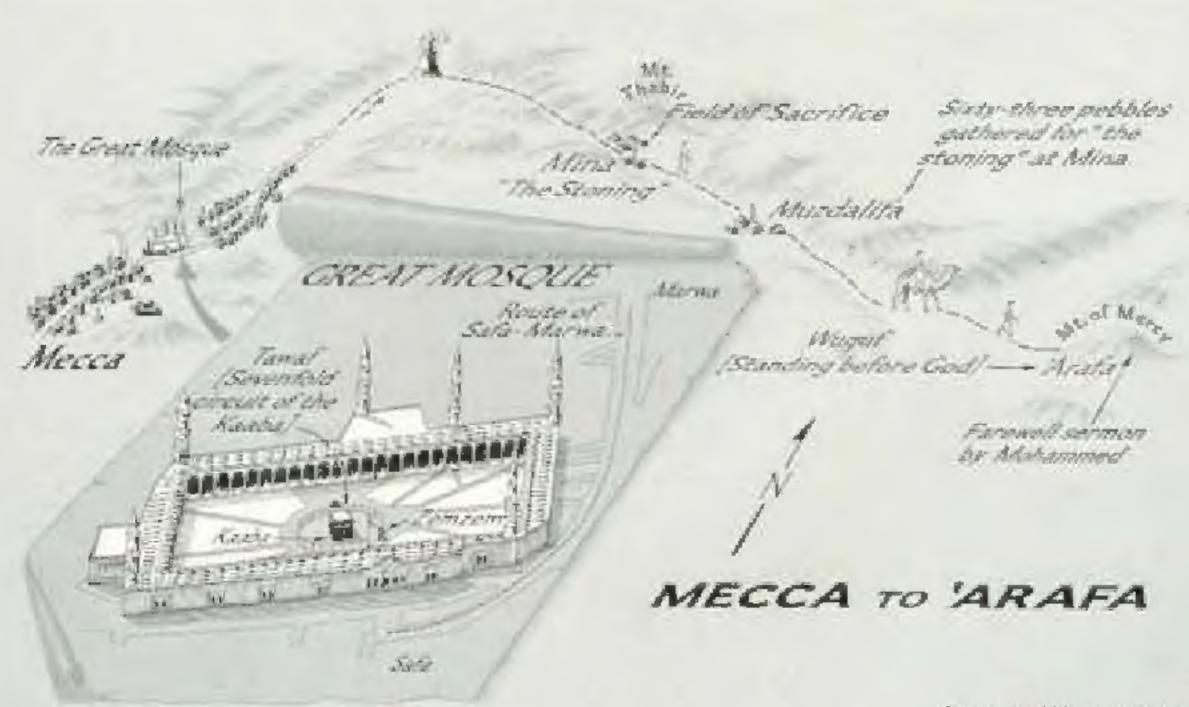


"Verily, the first house founded for mankind to womain in he surely at Meera, a blessing and a guidance to the worlds." mys the Koran. Devoot Moslems honor this city of the Prophet's kirth, hope to vidt it at least once in a lifetime, and face toward It for prayers five times dally.

# Meeca to Arafa

Goal of every Moslem pilgrim, after visiting the Great Monque in Mesca, is to trace the 14-mile. route to the Mount of Mercy at Arata. Here the faithful prayon the spot where they are reminuted of the Day of Jackiment. when they must stand before Allah







Thus I had come at last to the Great Mosque that maining and had said gloodbye to my friends of the journey and entered to perform my tawal. And thus, too, my hair freshly trimmed, I found myself now standing by the main gate, searching the faces of the crowd for one I might recognize.

# Remains in Meson

The sun was warm on my face before there came by a young man I had known in Pakistan. He hailed me, and I inquired after my father; but he knew nothing of him. One thing he gave me, however: directions to the lower of the friends with whom I had ridden from Jidda. I was about to set forth when a gleaning car drew slowly past our patal, stopped, and a tall, bearded man in a snowy turban stepped out. It was my father.

"Saldam alcikum," he said gently. "Peace

be upon you."

"And upon you, peace," I replied.

He looked fruit but his stance was as ancompromising y erect as ever. A philanthropist and an international trader in sisal and timber and other things, he keeps his headquarters in Kenya: but he has returned more times than I can remember to Mecca, for this is his spiritual home.

We node back tagether to the family house at once orders flew like sparks from a strack movil. One servant rushed to the market to have bread and dates for breakfast; another went to tell my fathers friends of his arrival; a third cleaned and sired the sleeping

charto la eta

In a little white the half and courtvard grew clamonous with wenerable men from a duzen countries, eager to splace the threads of old

acquaintance

Drowsy with the foremout's growing heat a dozed, then roused myself for a idday prayers and a prolonged sout with my comern around the musque. I teluraced in the evening to find my father still surrounded by his gaive contemporaries

Seated cross-legged on their carpets as the classes of emiled yeghert went tound, these men from Pakistan and Indonesia. Turkey

# Karbala's Gold-doned Minuret Calls Faithful to Prayer

Mucritis chantling "Course to prayer" limit spires like this policy whalf in Kartona, ling, are appeal that he present the A learned eiter called an empty using by a life the prayers, but defers to any one in the concretation he consulers more worthy. The bilinard towers from a message booking the times of Husain, stampour at Michanism

For more than 13 cents rim lalam has spread user the globe with no clerky, no product and want it may. Its calq by your at the apex of Arabic power, were

temporal rulers only

g Sensonal Location for Porticial Technical Association Clinical Association

and for fail questioned me with a flattering insistence. Their concern, however, was less with learning about the United States than with discovering if I had strayed from the true way

"O son of a merciful man, you have lived normy strange men who worship strange ends," said one. "I trust you have not forent or the glories of Islam

"He've could I do that?" I asked.

But the elder was not so easily to be diverted from his lecture. He reminded me of how, in less than a ceretary after the death of the Prophet. Mossem banners had waved over an empire greater than the R mans, from Cadiz to Cathay, from the Pillars of Elecules to the steppes of Tartary. He spoke of the universities which the completers planted at Soville. Granada, Cairo, Fés, Córdoba, Baghdad. He dwelt at some length upon the achievements to medicine, chemistry, against ture, mathematics, astronomy, and philosophy which Meslem savants bequeathed to a still largely backward Europe.

He had descoursed in this vein for some time before a trimly bearded Strian at my

left broke in quietly

"You know," he said, "I think that our most notable accomplishment was none of these. I think it was this: that under our empire Christian and Jew and Moslem could live and worship and prosper in peace. Lank at the Jews who held high state positions under several caliphs. Or the Christian grand a zires in Bughdad. And as for Sielly under the Agl labite Moslems from Tunism.

# Where Legends Say Adam Met Eve

Around and around my bead the talk buzzed, and a the dast-flecked shafts of sun-fight which filterer through the luttered blands the oil tales of falant scenned to dance and weave buzy memories of spheretors long past. I excuse anyself in a moment, pleading our need to plan the farthcoming trip to 'Arafa (page 4).

This plain of 'Arata has some 14 miles cast of Mecca, and it would be here, on Assesses 29, pinth day of the month Dhu 'l-Hija, that the magnit, or Standing before God, would

take place.

We could not miss this commony, for it is the crux of the whole had; in leed, he who has not stood bureheaded at 'Arnfa before senset on the appointed day has not truly made his had) at all.

Why "Arafa" It was at "Arafa that Mohamemed as rive his she-carnel, prenched from the Mount of Morce a facewell sermon. And it is there that Mislems are reminered of the Day of Resurrection. According to our highests, Adam met Eve at "Arafa after their



Iragis m Karbula Primeriose Bahasi die Tomb of Hassin, Grandson dans Prophe Vir village in a standing on the Morning of the Standson day, or a morning to the following sector of the Santonies.

# A Divite Risses a Seven December

23





expulsion from Eden and their separate wancerings over the face of the earth

My father had arranged seats to the plant on a bas, but I objected: it would be recorded and would give me no chance to stop where I liked along the coute and take pictures. So I urged on him the luxury of a bired car, even though for these few miles it would cost to nearly \$200.

In the three days before the Standing we bregled am, argued, made plans and changes then an important made then again, in a fastil or time-

beginted within my family.

In between these forensic bouts I slipped out into the city for several hours each day with our camera.

Fiven I was arrested. I was taking a picture over the Station of Abraham when a guird addenly grasped my shoulder and demanded

What have you there 27

With a farm grap on my area he led me to the painte station. There I met a vailer of questions from the ganrds, who, indicentally, are accomplished linguists, for each had; I rings to Mecca a published tengues from a bundled lands.

Eventually my interrogations released ne, still in possession of my camera lenses, and high meter.

# How the Telephone Come to Arabia

Next day we drove down the eastern road to Minat on our way to 'Acafa, Here the Prophet had halted overnight to rest his carriet, and so by tradition, did our great throng of several bundled thousand pilgrims. Minu, of course, could not bold use a few bouses, a few sucps of over the value. The hadds spread out over the parms: valley under Mount Thabit in a chind of tents.

My father's tent was pitched upon a slope be had frequented in wars past, and hardly had the smoke of our cook fires ascended before friends down the line began to arrive with gifts of food and cooling drinks. It was like the first night in some summer resort to which the same group of outh clasts returns each year from their scattered places of winter work.

West upon Islam, and there was much viewing with alarm and shaking of aged heads. but not all the importance that worried there were untinged by human. One shocks, for instance, tald how only King Modul Arm at Saud introduced the telephone into Saudi Ambia.

TYDE must our erstand, O coffightened ones that the religious lenders around the king the advant are strict in their ways. When the there heard that certain is files were foising upon his Majesty an odd black made

strument which spake, they felt sure the Devil was at work

So the king (may Abah grant him a long life!) called the mema to his palme at Ros oth and when they had gathered he held not the receiver to the chief among them and told him to pat ut to his ear. Trembing, the old nanobeyed, and in a moment a heatific smoke danned as his has. For from the instrument came a your stanting the first mapter of the hours.

" In the name of Ylluli, the Compassionate, the Merciful, praise be to God, the Lord of

"And the King, who had stationed the speaker at the other end of the line in Mecca turned to the alema and said: Is this the value of Satan?

"And as the man the elders oried," Nantaghtrade Allah". We beserch Gant's forgoveness."

Ther spoke a monen my right. "But were the ulcome wrong? A emby, at times when I have tried to complete a call between Mesca and Julda, I, too, have thought this an invention of the Itevil!"

A merchant from Juida famed in the lauthter. "I know wed what you me m," he said "But service has improved a little. For a time it seemed impossing to get through, for the operators would sip their coffee and telyou again and again: We are sorry, but Itinge Laisal is on the line."

"This was all very well, until one day Prince Fassa himself tried to telephone. They told him, 'Pardon, the line is engaged. Prince baisal is talking'. The Prince strode down to the telephone exchange and o ared out to them: 'Look'. Here is your Prince Faisal!' And he gave them a tongue-lashing that left them trembling.

"As I saw, the service has now improved somewhat"

I suspect the story is approxyhul, but it shows the Moslem sense of humor.

# Islam Marches to Arais

We canke camp at Mina after the morning prayers, and the whole enturings moved to-ward the plain, nine miles away. On this, the apparted day, Mina and Mecca itself would be ghost towns, for all who could walk, and some who could not, would find their way to the Standing

In truth, we were that a nation on the march but a community of nations—slan Chinese with lattle guatees; huge turbaned mountaineers from Aighanistan; knife sharpeners from Turkistan with their grindstones strapped to their backs, et one chiefaliss from Uganda; near, debrately bound Javanese to topped hypitums. Lehanese emigrants from

(Text continued on pure 15)



Like a Climit's Sand Castle, Summera's Ramped Minarct Spirals Skyward

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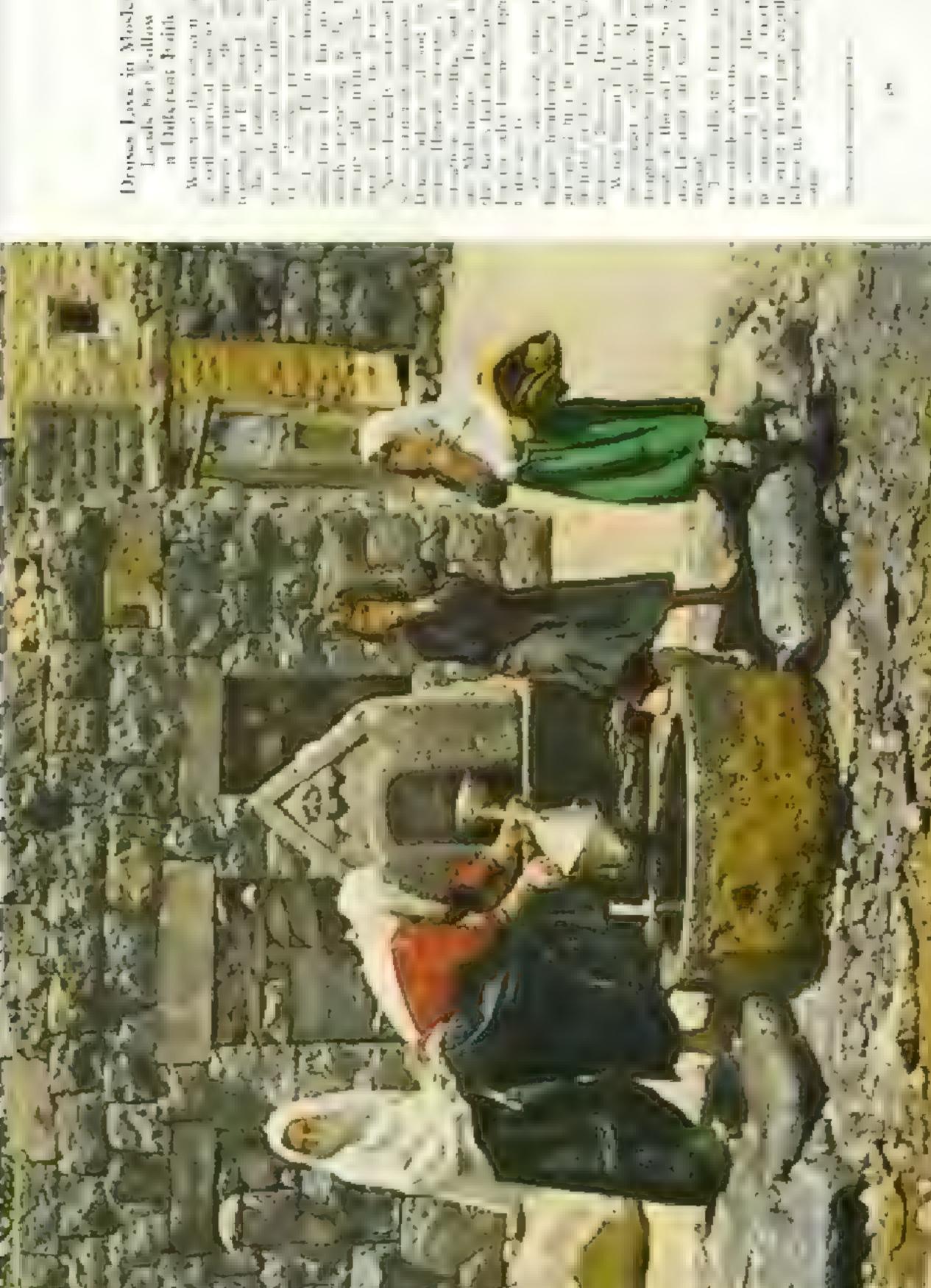
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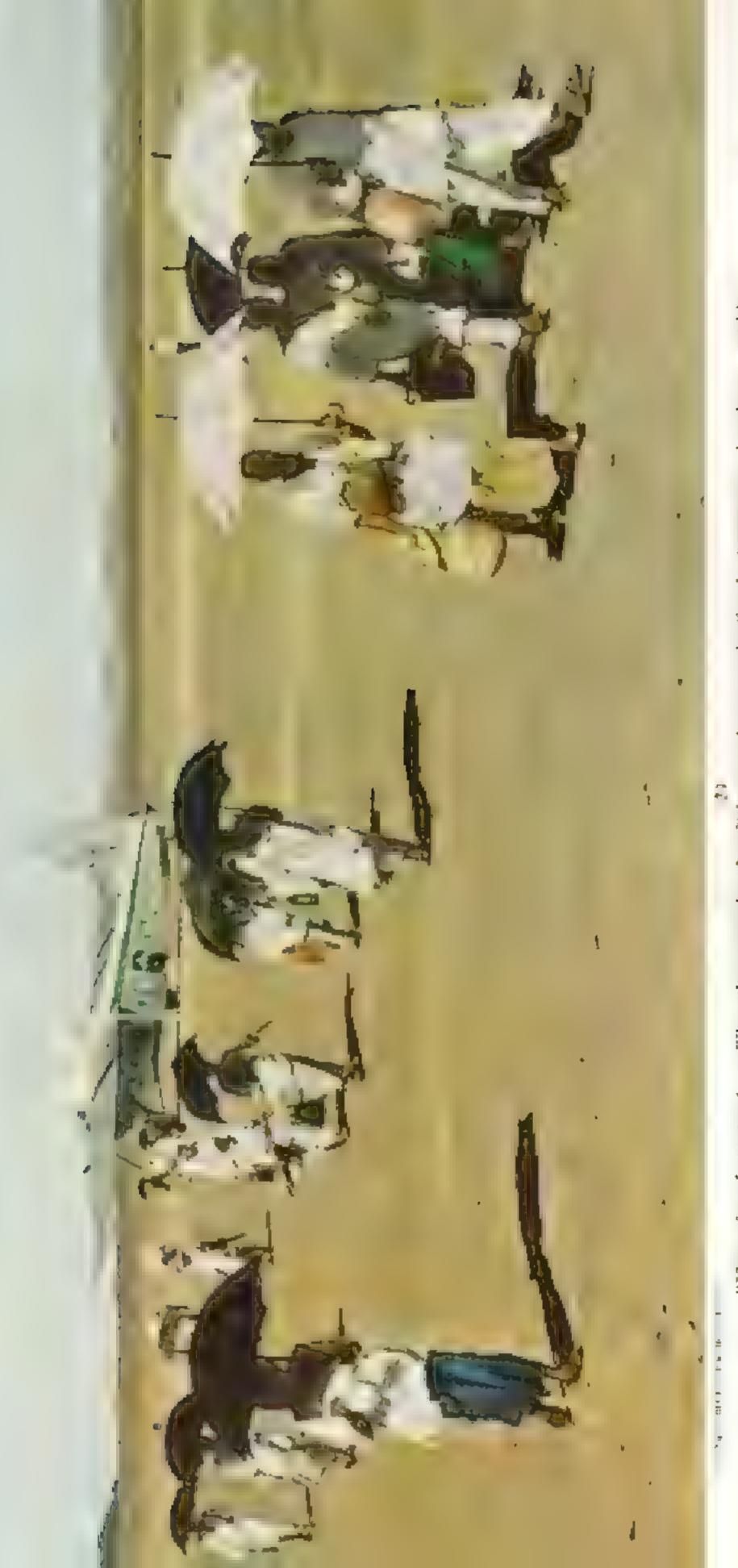


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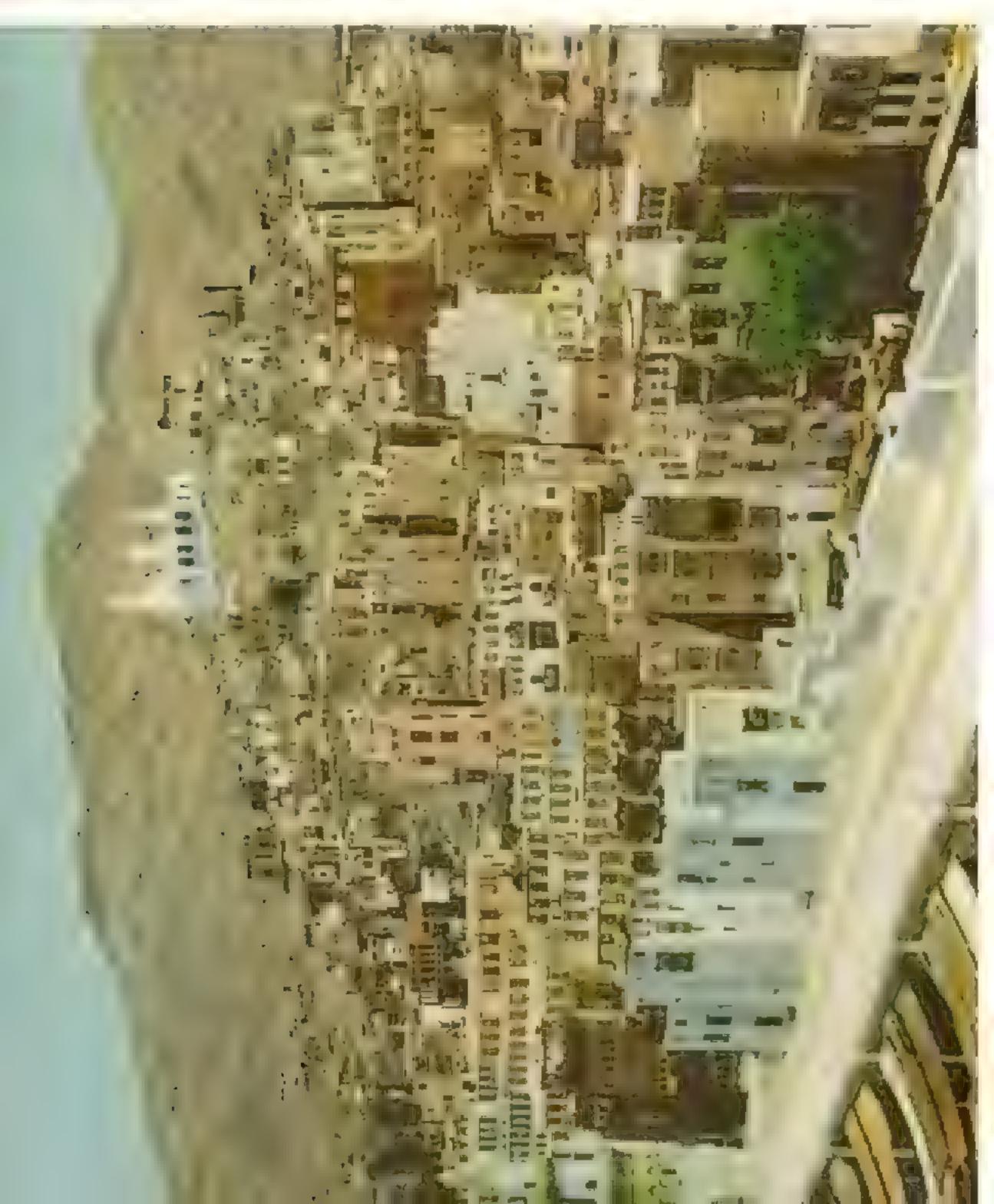
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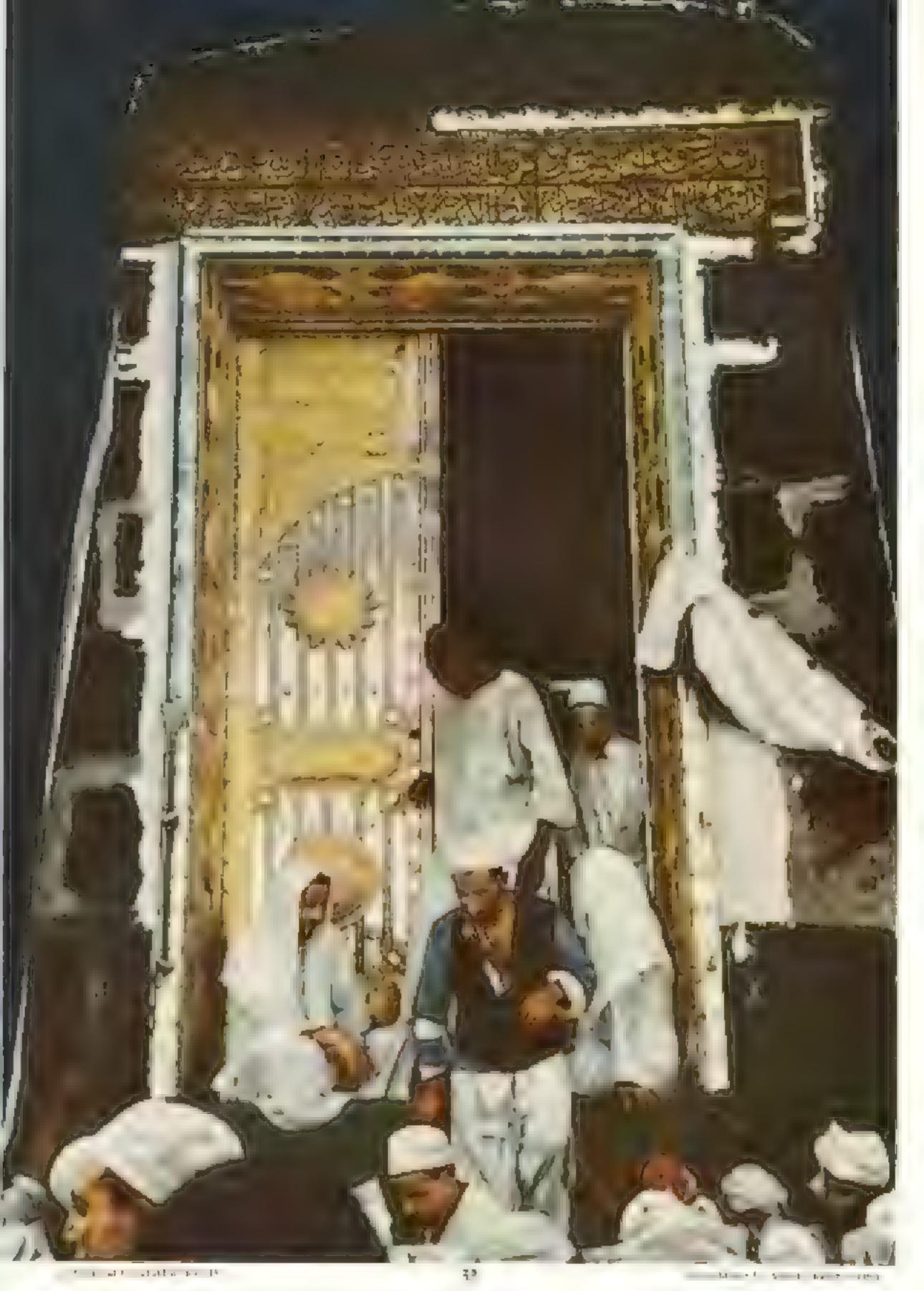


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# Prince Paisol of Saudi Arabia and the Author Study His Photocraphs

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taken the Prophet, an har or more to reach this way station on the route to Alina. In theory, the case and bases would easily overlake them; in practice we knew well that so many hundreds of theosan is pouring through one bottleneck out of the plain would produce a stoppage of monumental proportions.

Caburned, we lay on our carpets and stanned the early stars, grateful for the wink-

ing out of God's great diurnal lamp.

Not until one o'clock in the morning d.i. the choked lines of traffic gornvel sufficiently for us to proceed, and even then we did not dare keep to the road but cut through the bills on tracks the guide claimed be knew.

At Mozdaida we paused long enough to gather, as custom dictates, the pebbles we should need for the Stoning of Mana— 63 petioles apiece. We tried, too, to fine, something to quench our parched throats; but this was not so easy. At length I came upon a party of Yemenites who had on oil crum of water.

"For the love of Allah," I cried, "give me to druk!"

They looked at me and saw only a sweatstained, dirty beggar, and they abnoted: "Yallah! Regone!"

I went. But I come back when their attention was diverted elsewhere and drained a jar full of water from their tank. It smarked of oil, but it was at least wer.

#### Stones Fly in Scorn of Satur

At M na we settled at our former campsite, and in the morning before the sun was high we sallied forth to the Stoning. According to one Moslem legend, Ishmael encountered the Devil three times at Mina, and each time he rejected Satan's enticements, refusing to toutant his father Abraham's purpose of sacrificing him to the Lord. In remend came now the faithful, too, spurn the Levis at Mina by throwing stones.

There are three stone pillars marking the spots where Ishmael (in the Bittle, Isane) was tempted. At each in turn the patern tool. "Allahu akhari Gost is most great!" and things seven peables in successi to place to the

We threw ours with a will and durged as best we could those coming from the other side of the pillar. There was much laughing and shouting by the crowd and a genial sense of solidarity.

The Proplet had recommended this site so that his followers should learn that, the ight each was weak and armed only with a pebble, together as brothers in Islam their collecting strength was great.

I hoped that, for my generation, it would be a reminder of how all Moslem nations must unity I they are to deleat their correct encmies: poverty, disease, ignorance, and commu-

Sactifies. Here, for three days, the feast of ld at Adaa would be celebrated; but not only here, for all over the world Moslems would be observing this annual holiday. We at Mina felt ourselves at the ceremony's epicenter, however, in that it was here Abraham is believed to have offered his son as a living sacrifice to God, and here that the angel produced as substitute a range.

#### Bleating Flocks Await Sloughter

In commemoration, Moslems today there a beast for slaughter—a sheep of a goal of a camel and give most of its body to the twor. Those who have sinned against Koranic law in some respect often sacrifice a second

or a third animal in explation,

The field was thick with thocks when we came to it, and load with the bleating of the huddled victors (page 52). I watched as a friend of a ine bought a sheep from a wire bedouin, pointed its head toward Mecca, marmured "In the name of Allah, the Compossionate, the Merciful," chanted "Allaha akbar," and drew the knife across its throat. The hot and thirsty sand drank up the blood; the sacrifice had been fulfilled.

Before the evering of the third day of he all Adha, the pilgrim must journey back to Merca and make his second towal around the Kanba. My family urged me to accompany them in a hired car, but I insisted on wasking—not from an excess of piety so much as from a desire to take pictures along the was

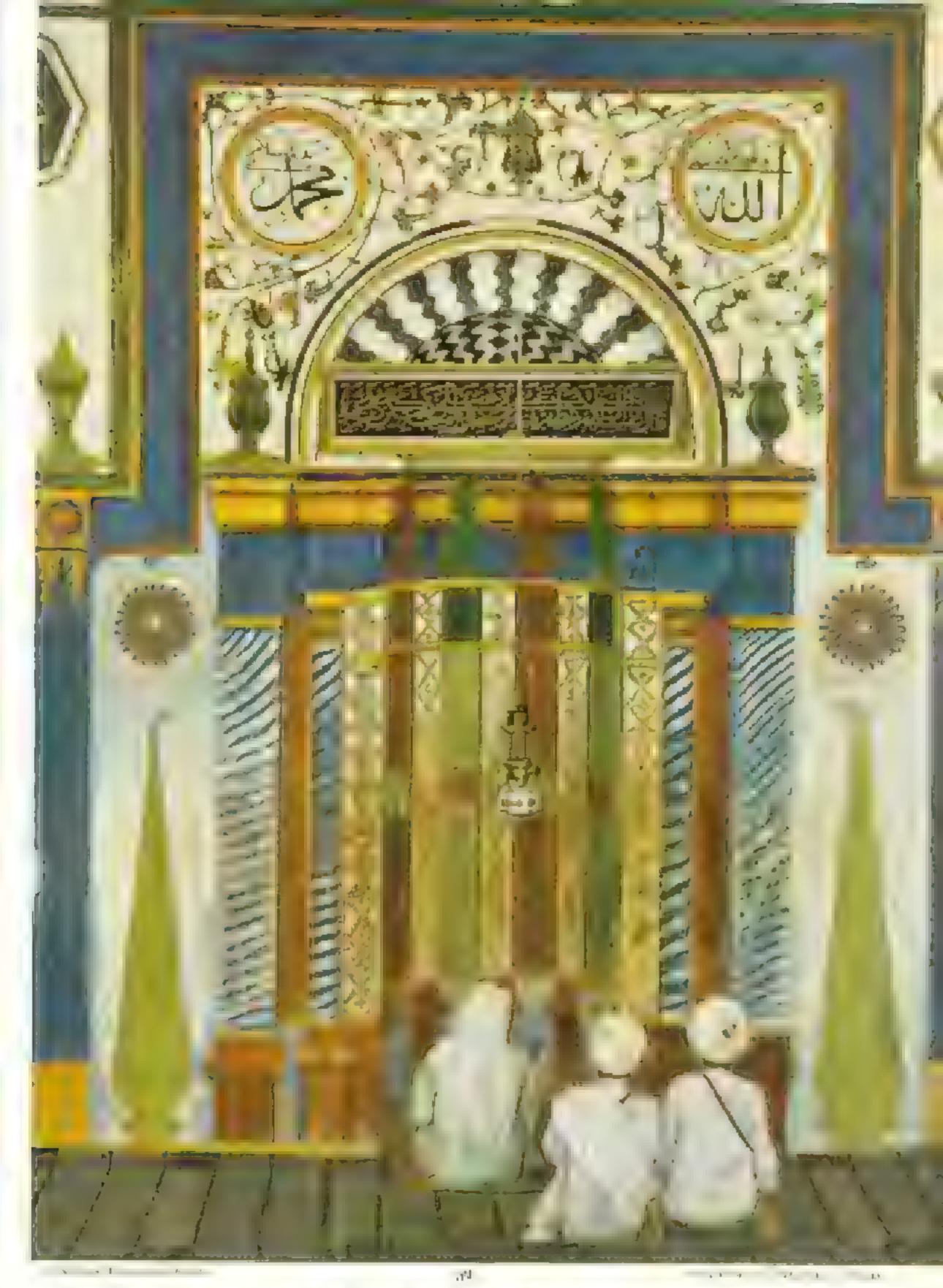
#### Dust Storm Wraps the Road to Meeca

As I plodded along the Mina Meera mad, another dast storm swated up from the alon desert and wrapped nur stranging column in choking, stinging clouds of grit. By the time it had bedevoted us enough and danced off across the dan-troown plain, the light had began to fail.

Truly anxious now lest I miss my tawaf, I builed a passing truck. For five reyals (about \$1.50) the driver let me rule beside him, and we jourced into Merca at a good cup. In the Bazaar of the kedmin he let me descend and, dusty and disceptificable, I holide I through the clotted streets to the mosque

I had come in time, and the day was not yet spent before I completed my chrumana-bulation, jugged the seven long laps between safa and Marwa, and submitted once more of the ritual handlipping. Numb, extansied, I stumbled back to my father's bouse, savoring in my mind its hospitable serepity.

Respitable 1 found it; but hardly secene. (Text continued on page 45.



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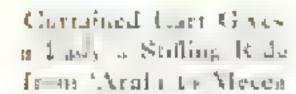


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blates, and we hadps were stil the guests of lines Edical thase 351, Vicetay of the flet a subliged by the laws of busputality to await official permission before leaving the cit. Authorities were apparently withholding loss, ornies are relative to the cope with the retarning bordes.

I asked our guide to seauce a special passion in the nathorities so that I might have at least a day's grace before the floodgates were unlocked. But he replied only with a shrug of resignation and the advoce: 'Wait, want You Americans must do everything today, of it possible, yesterday. To norrow will out"

"Tomorrow" I cried "Your tomorry is a pregnant wantan. Who knows what it will bring forth? I am more interested in takey."

#### Airline Resigged by Pilgrims

When I returned, trims, thant, to my father should in a family argument as to schether I should go alone or whether they would all, permit or none, accompany me. The dispute dragger on like a wounded snake, getting nowhere, until I tred of it and, shouldering a great has of sliver rights, declared I was going to Micaina and would neet them there when and if they ever arrived.

Easier said than done. In Jubla I found the airline willing enough to sell me a ticket to Medina, but in no burry in give me a reservation on a particular flight. Hundreds of applicants indeed were already besigning the nimeri of trainer life and with in the lobby and asserting squatters rights to positions near the counters. When, a short while after I had come, of itials released the hadges from Meson, this alway received formitally from Meson, this alway received formitally be after that the counters.

I might the waiting yet to break through this cordon if it had not been for the help which my brother. Rashid, in an odd way provided one. The previous year he had happed across the Red Sea to Julia in his little private yellow plane and hammered on every loor for permission to fly on to Medina. This was firmly refused, of course, for nickorns sight-seers are not permitted above the holy city. But in the course of his stubborn peti-

tioning he had churmed as well as astonished every official in Jidda, and when I came in my turn to plead with them, they greeted me with courtesy i sterlared with considerable curiosity. And in this course, I received my reservation.

#### Ordeal by Air Pocket

Once in the nir, I werer, I had cause to question my good fortune. I had flown many hours in all manner of planes; in my own two-senter I have fought the truly violent down draits of Africa's mountain passes. But never bave I endure I so bumpy a flight as this 200-mile trip to Medina.

The heat which rose from the desiccated plain was almost visible, and the air packets ato which we lamber, and sank seemed bottomless. It was as if we had been reged in an elevator with an appetator gone breses, or had studded into the revolving room of some Crazy House at a children's carnival

When our wheels at last touched ground at Medina, I joined my fellow passengers in garage thanks to God, not so much for the problem of being in the town beloved by the Prophet as for arriving on the ground at all, and in one page.

We waited no more than an hour in the full son before the Government was serived, commonly to its heat-blistered sides, and we call juto the city packed together like the

and ters in a box.

Hailing a porter, I set forth hits the twesting, ancient streets in search of my friend! house. His name was Maulann Zeyahocia and he had I ved in Medina many years.

But the addressmeant nothing to my bearer and it was late a term on better we found out selves, dusty and footsore, at Zeyahodin's nate.

My telegram of two days previous had not yet reached him. But he embraced hie, none-theless; aried "God ie glorified that you are here," and called his children to meet me.

When I had tested he singested that before the evening prayers I might like to visit the public boths. Gratefully I went one steamed from myself the petty irritations and samply ances of the day, tetarning refreshed in body and spirit

#### By the Tomb of the Prophet

As I safelized past wabed gardens and houses old before the I'm phet's time, a breeze that hore the promise of a cool night to come tuffed my fresh, clean garments and brushed my brow with a gentle touch.

At Zeyahodar's I met a young man with where I had played as a child on my first had; Possessing now a great beard, tall, most distribed in his Arah robes, he met my startled

(Test continued on page 57).



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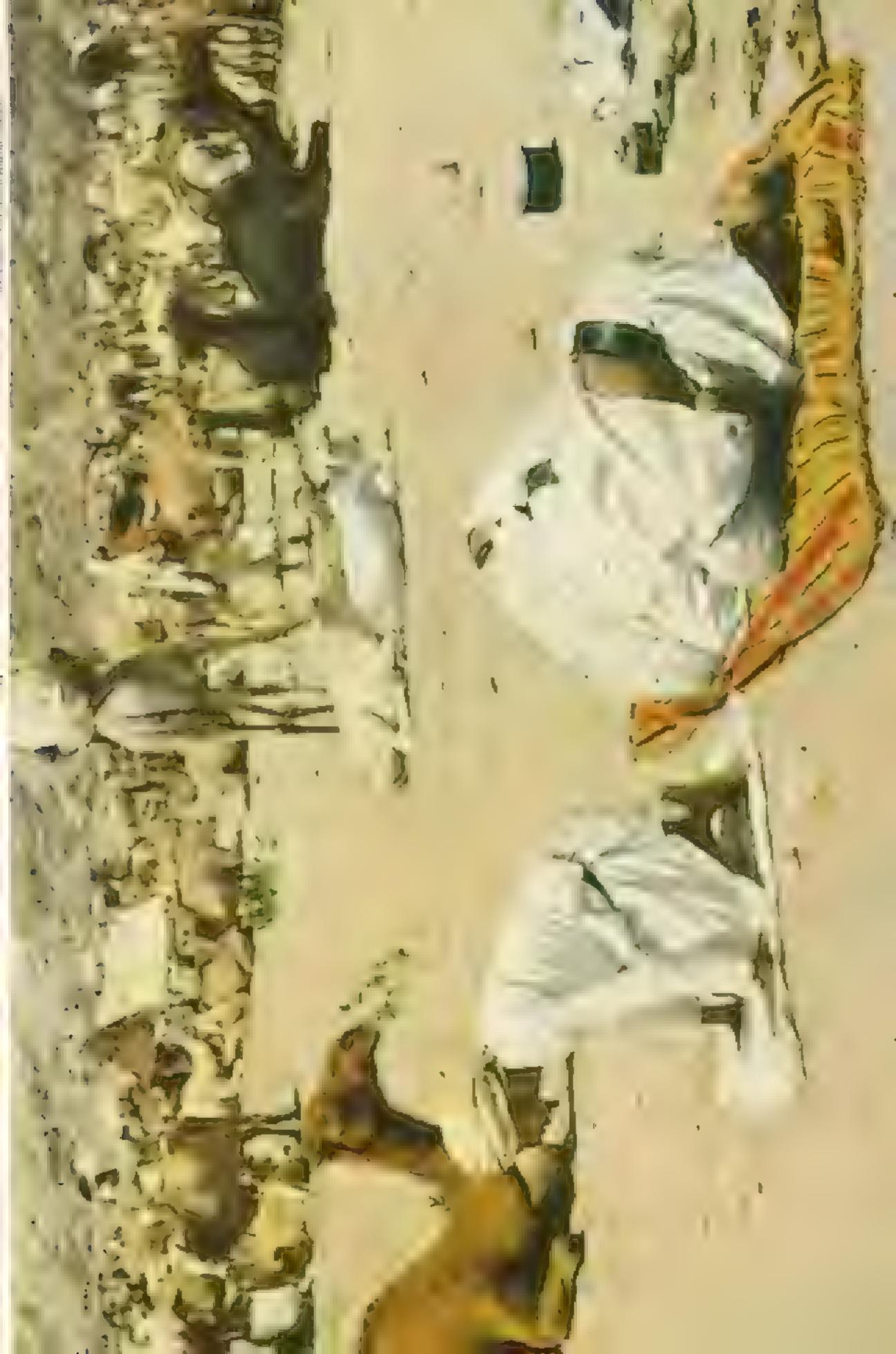
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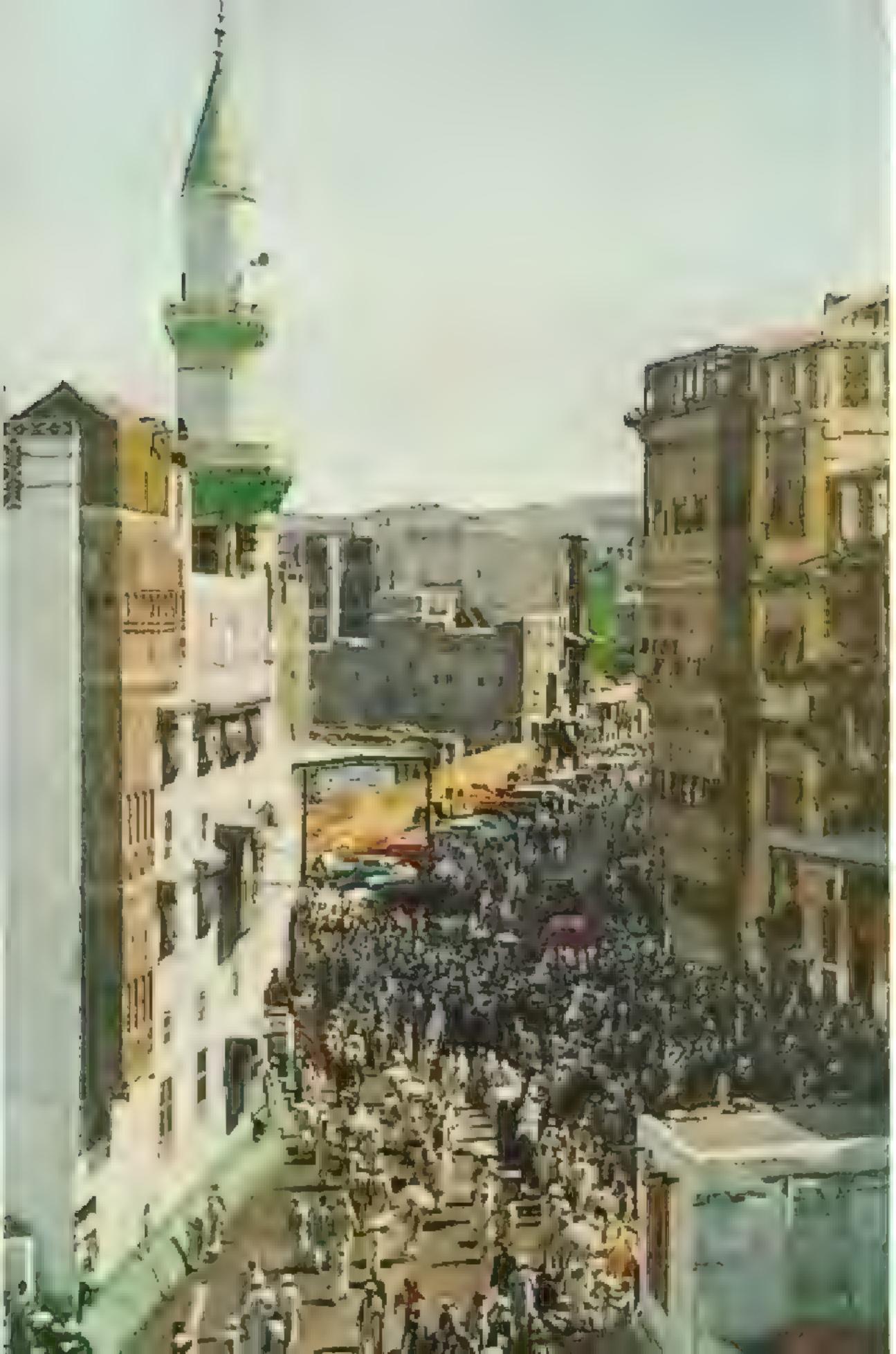
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One night, however, the king in his camp

In estable techniche ache actività a a termettori de l'in a indiatabili · to to the I - I warmed him that the Prophet's nor i was contact acrost that k he rode to the I . I to on his fastest carrel, and his army with him. He summoned the governor and instructed him to hold a huge feast and to The per all for I've forest

Then the king stationed himself by the or to the feasting tent and looked into the face of each starst who entered, for m the first the first see that the filters THE THE PERSON OF THE PERSON O THE PARTY SAME.

a medial de sovinir di sal rij court been be a New all the progress case come to the feast." And the governor 1 -traceht, wandered through Morana (P) for lenden ber the more office the the ica con diena hint have but in simulativities 

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street to the mesque fiself, and already only a few teet short of the tomb of the Prophet.

"The king gave thanks for God's touch, warning, stopped the tunnel with earth, and excepted the turnly enclosed in retals of the hardest degree."

"And what happened to the scholars?" I ask . .

trev did not die of old age," said my companion cuttly.

#### Where the Prophet Became a Concrat

brow Medina I went out to the battlefields of Bair and Ohod where Mohammed fought the armies of Mecca. Driven into exile by the powerful Koreish tribe that controlled and profited from the kird worship around the Kaaba, Mohammed had sought allies on one Medina's citizenty, many of them Jews

These men became the Prophet's first troops and, after some initial reverses, proved that crossed ng passion, buked with shrewd general-ship, could make a devoted handful the equal-

of a herrite

I visited the cemetery where many of these companions in arms lie burfed, and the Kuba masque built on what is believed to be the spot where Mohamu ed received has sevelation instructing the faithful to face no longer toward ferusalem when they prayed, but toward Merch (pages 39, 41).

theard about, but did not inspect, the wed whose waters the Prophet's prayers changed from tater to sweet, and the shape where a now and arrow supposed to have been his

are displayed.

Higher, more temperate in climate than Mesca, Median is calm, peaceful, almost lux-miant. The dust blows through its streets, yet there is greenery cytilent everywhere (page 401). Date pages wave over courtyard walls (and the dates are descions); track gardens provide an alamdance of fresh vegetables; muk can be had, and pomegrapates, the fruit of Paragase.

#### Second Hudgest City of Islam

Time means I tile in Medina; eternity everything. The city seems not merely recommised to death out half in love with it for it is reckaned a great blessing to die in Islam's second haliest city; an the Day of Judgment, so legend says, the Prophet was arise, wase his family and the catacens of Medium, and together they will all manch down to Meccan to arouse the test of mankind.

If we much this Lope is prized became clear to me when I tried to tempt Zeyahodin to visit our family in Africa. I affered him saturis into the hast, a shot at a lan or an elephant, mountains to climb. He may shock his head sadly and said. "But what if, after all these years, I should die outside of Medica?"

of Atlah? And do you question His will? He studed fuefally. "I question it total

V 1 Leannot go, "

Most pilgrims to Medina perform at least 40 propers. At five a day, these would consume eight days. I left the city after only 10 propers. This disturbed my friends; but I knew that if I remained longer, it would disturb the litera of the Harvard Conducte School of Business Administration over more hards I was quite sure to miss the day of registration.

Metrifully the plane lack to Judia pursued a calmer course than the the on which I had arrived. But on Lading I discovered that commercial flights from that city to points outside the country were now subject to six days' quarantine imposed by foreign authorities. In despair I turned again to Arango.

Obliging as ever, the company promised me space on a plane leaving the next day for Dhahran, whence I could by home. Who several hours to spare, I drove up the long toad to Merca, now relatively described, to say farewed to my family; for, true to my expectations, they had never quite made up their minds to join me in Merina.

#### The Pilarinia Farewell

Most pilgrims making then tawaf of larewell around the kaaba and budding goodbye to Mecca know a gentle's arow. They cannot teal when, if ever, they will lay their eyeagain 4 on the holy city. My regrets stemmed

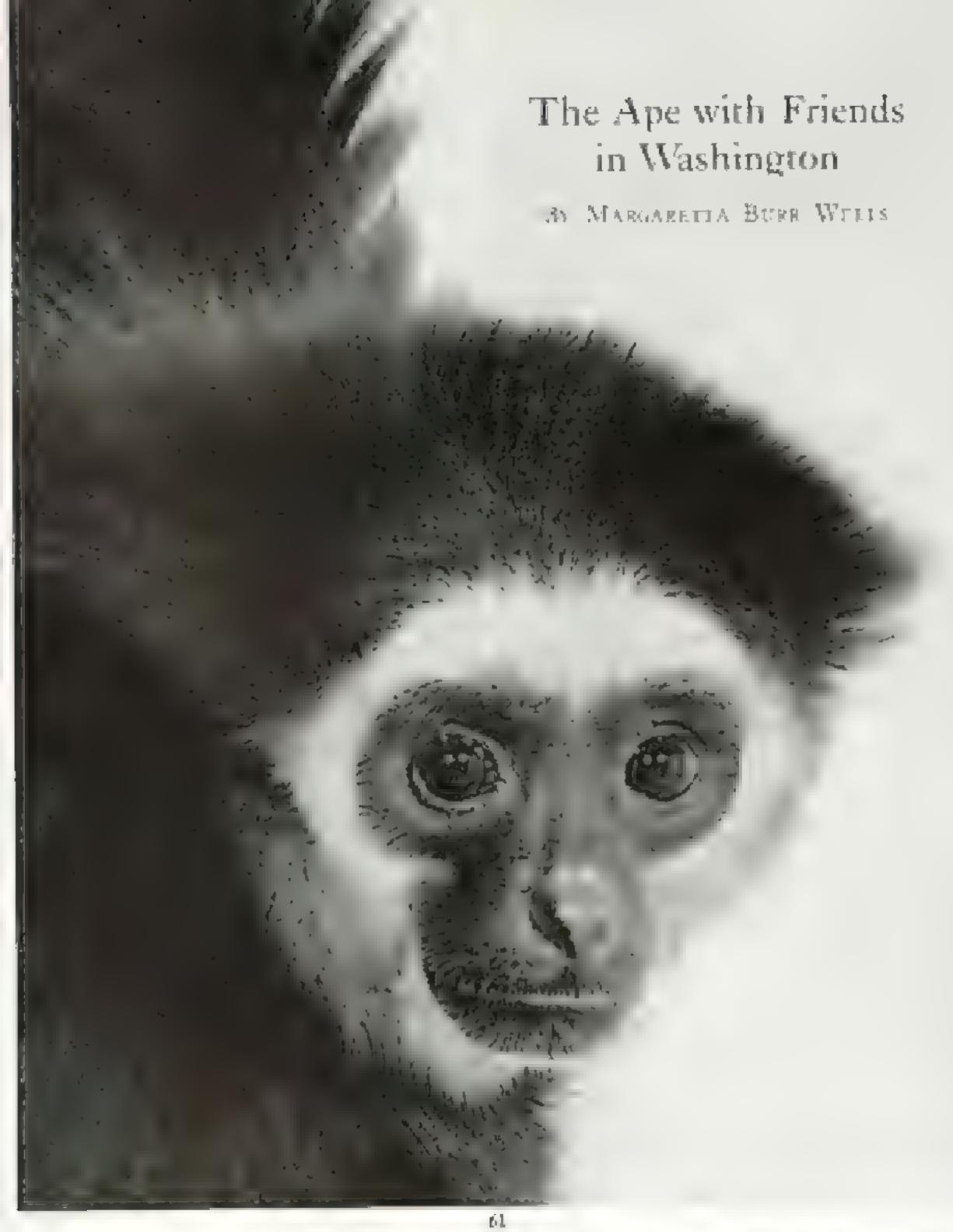
largely from another source.

there is a saying among Araba: "On the livet had, one sees the House of the Lord only; on the second, one sees the House and the Lord; on the third, the Lord only." This was my third had, and I asked myself the sharp question: Had I reversed this order of spiritual progress, so that, distracted by my photographic mission, I had focused solely upon the House and missed the Host?

With Allah lay the answer. I walked for the last time up the much y streets (wet with wat a sleshed on them by merchants lighting the dust); stepped past the dames where men lounged and called langually to the galaxic wallaha, 'Coffee, I pray!'; and wheeled about for one lingering look at the mosque's high

walls and slam, aspiring minarets,

Then to myself I murmared the prayer all prigiting pray on their homeword course; hord, accept my had;" And I turned and strong to be warning for and crove toward fields and the place which would take me to Dhahran and a flight westward to complete in New York my airborne pilgrimage.



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#### Is the Gabbert Binbuch

"It is Ilimbo, I know it and Recoexultingly.

"Call to her." preed our son, lo-year-old Kenneth.

Route and first a structure to Thatland gubbons, this one pitched in the manner she had always used in attracting Bimbo.

Light should be true as Keeperly Ruberta called more loudly. The carious give the andible comments of the abow t and a had made her feel a bit con-1 | 1 | 1 | 1

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turns, found us at the sun. We circled freely this the black the meaning in the falls.

"We il have to come early some morning when there is no crowd around," said 12nd. The next day he telephoned Mr. Ernest V. Waller days a reservant cirector

In you tell me where you got that black called the stakes

! are an animal catter in Bangkok; we don't know where he got it. Ho you wish to hav one?"

"No. You see, she looks like a pet we had for Chang And We to work the Cake of title he allowed up close to bet to find out

's es, indee ! I'm very min't interested to the memory of apex. How about Friday morn ine, but the react conversational, I be he there at 6.33

#### Gifts for Bimbo's Sweet Tooth

It had been 15 months since Banke had seen Roberta and kenneth, half the worldassembled from the sale that the H 1 25 The Liver H Was Letter to the recognize them?

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#### Birche Recembers, a Hag for Synners, a Kiss for Roberta

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#### Mwars Reads to Frolic, B. L. Pushes a Hand in Roberta's Face and Nips han Humb

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#### Delighted Gibbon Accepts Candy

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"I must say," said Mr. Walker, "that this is the first how I have ever some subline

enjoying chocolate creams. She is yours withent a thusb

"She usually has wrilles and syrup for Sunday-morning breakfast," Asserved Kenneth.

"That I'm afraid we can't manage," said Mr. Walker regretfully

"Do let me get into the case with ber." Inegged Roberts.

"You'll have to do it at your own risk," warned an assistant standing by

"Oh, yes, please! It will be all right."

#### Old Friends Enjoy a Good Cry

The iron bars were opened and Roberta stepped in. She stood at the fur end of the cage, held up her hand, and called in a tone that told of pains trees, tiame-of-the-forest.

and frangipani blossoms,

With a whoop of joy Bimbo threw herself into Roberta's arms, and gud and gibbon hugged each other, crying unrestrainedly. For some time Bimbo referred to be put down, ng ching fast and protested in a hurt little veice. She allowed her nose to be rubbed. and the spot between her eyes, and her eyebrews, and she stretched her tieck as a cat does in order to be rabbed under the chia-

Since an animal ordinarily shies away from anything near the eyes, Mr. Walker was much convinced than ever that Dimbo was with her

own family.

The morning growds were beginning to come to the 200 and to flow past the Small Mammal House. The summer lacongroups sight of a girl in the gildem cage stopped them in their tracks. Relactantly Roberta left the cage, giving Bimbo a second chorolate as a purting off t.

#### Roberto Receives a Scalding

"We must have partures of this," declared Mr Walker, 'Can you came back on

Wednesday?"

We did. The two larger glbsons had again. neen decoyed away and the cage cleaned. Bindle wat hed with interest and offened comtrepts while Mr. Walker set up his comera. She took the proffered pineapple and chocalates as her due; then, walting until Roberta stepped into the cage, she greated her with delight

Finally Bimbo sat down on the floor and turned her back on Roberta, saying "woop, wraip, woup," safely and repreachfully

"She's pouting," explained Roberta, "mad asking why we stayed away again after finding

their to

Dr. William M. Mann, for 28 years the director of the 200, wanged his head us if be had now seen everything.\*

Roberta soothed Bimbo's ruided feelings is apployetic tones, whereupon our pet brightmed up and became her usual obeary self. Sacwas ready to pick up life where she had left it in Chiang Mad, 15 months before. She made prodigious leaps while giving coy glances asking for pursuit. She tagged at Roberta's shirt and ann away, then retained to shall at her hair, roughbousing as she need to do on the big veranda (opposite page).

Bimbo would never roughbouse with me, but would sat on my lap to be brushed and to have her bead stroked and her feet rubbed It ming this process she would stretch out and floze, purroug gently like a cat, until with something like 4 so we she would drop off to

٠(<del>٥٥</del>).

"Cer into the cage and see if she remembers you, Dad," suggested Kenneth.

She may not forgive me for walking out on

her-and for my teasing."

He referred to the times when he would stand near her feeding tray and cat a banana without offering her any. After frighing indiguntion at this cutrage and using very bad goldon language, she would then extend a long arm around him for the other banana hidden behind his back,

On this occasion Bimuo oil rementer him and forgave all, and after a log smile and a hug she thumped him on the thest with both iest and darted away to show that they were

back on the same old footing.

#### Bimbo Grew Up with Humans

Now just over six years old, Bundlo was a baky when we got her, and small enough to fit into a shoe box, long arms and all. She came from the fantastically beautiful Doi Chiang Das, the Mountain of the City of the Stars, or, as some say, the Mountain as High as the Stars, which is 42 miles north of Chiang Mai. There, in a lush glen, wild gibbons feed on trapical fruits and drink from a crystal stream flowing from a limestane cave where tiers of golden BudJhas sit in endless medita-

In the painciana tree in our back yard we look Kar or a small brase, and in front of t placed horizontally a thick bamboo pole which extended about 20 feet to a post on which was mounted a feeding tray She was lethered to the pile by a light chain and a sliding cong. She quickly learned to burns from the pole and swing along, hand over land, with surprising case and speed, and, as an alternative, to run along the top holding the chain in one hand.

From the beginning her outstanding traits were affection and mischief. Her reschief was

<sup>&</sup>quot; See, in the Nariowal Groundrine Magazine "Man's Closest Counterports," August, 1940, and "Mankey Folk," May, Iwa, Irah by Wittam M. Минь

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Henry Land Color In the Color of the Color o

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in t malicious, but a form of teasing to attract attention or to take advantage of a s tracion for the fun it promised. She exhibited a variety of monds—often pure preterse—such as disdain, coyness, jealousy, indignation, law teur, and great, and sometimes she wonto giggle.

Higher was an early riser and each morning iterally watched for the dawn. A Thai begend says that the gabbon's cry of "poo-a" (have bushand) at the first touch of red in the sky is no expression of remove. A fickle wife, foldore relates, beloed a band-own trigand slay her husband. Highly displeased, the god Ladra turned her into a gibbon. Since then the Sight of a set dawn reminds a gibbon of the foul deed said sets her to waiting "poo-a."

On some mornings Blmbo would coult the cry and come nutetly out of her tree house, do a few pull-ups on the pole, and then perch on the feeding post and watch Moan, the cook.

start a fire in the stoop

Friday was her night out—she was turned loose them; so on Saturday mornings she would swoop rown from the giant rain tree in front of the house and run along the miling of the upstars veranda to see if anyone was awake, particularly Roberta.

Sometimes Roberta would unlatch the screen door to her bedroom and then jump back into bed. Bumb's would cautemaly push the door open and come in. The four-poster beds within were ideal for serial tag, and as thin to swong phout their tops her screeks of delight were mingled with Roberta's "Shibit, Mother will hear us!"

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#### Gibbon Freds with Dog and Cat

Bimber was jealous of Archie, our mottled cat, which had the freedom of the house. Archie would lie by the screen door to get the tropic breeze, and Bimber seeing him, would come up hostling with irritation. Archie would then yawn and switch his tail, safe behind the screen, whereupon the git hon would

Being becedf tailless, binde seemed to tarry on a crusade against the tails of all cats, dogs, thickens, turkeys, and peacocks that came with Sambo, a neighbor's puppy, Bimbo found that when she dragged him by the tail be was helpless. Thereafter their game developed into "tag the puppy's tail" until Sambo became exhausted and lay panting under the bruse, resting up for another go at it. In any game of tag Bimbo's speed and dexterity exceeded that of dogs and men.

With little Danny Marvin, Sambo's owner, Rimbo was all gentleness and affection. From the time the boy was a month old she knew that he was to be loved and protected. She would sit beside him while he wrighed about on a blanket on the floor, touch him caressingly, and even kiss him.

As Danny grew to her beight, she preferred hint to all others and at every opportunity would sit on the edge of his chair and put her won around him

Three-year-old Dottie, another neighbor, could pick frindso up awkwardly and higher actual to be true to his reviews adults.

Only one child aroused her delike, a boy who tormented her when she was tied up, Dad found her tuming and againsted, and to solace her he unhooked her chain. She gave him a quick hug of appreciation, then loved atomat the corner of the house, making most unusual cries. She heated the boy, promptly west up and bit bird, then scampered away doubtless feel ag revenged.

#### Bumba Romps with Schoolboys

It was Bimbo's foodness for schoolings that necesstated tethering het during school days is hen free she would niten hale in a fruit tree until students came by, then dart out after them. They would retreat, laughing: then bimbo would turn somersaults to show that it was a game and scamper back to ber tree the boys would advance; down would come thinho like a small black hutrione and put them to flight again.

When thoroughly enjoying beeself, she would leap up and turn backward somersaults

In milit cor.

Or associally Bimbo's chain became unsnapped. Thereupon she would come rattling along the veranda, holding the chain in one hand, much as a lady does a long skirt, seeking the family. At 2 o'clock one morning we were awakened by her cries from a point above the house.

"Burdo is caught" wailed Roberta.

We rashed downstairs and outside. It was a still tropical night with a full moon lighting up at the country side, and every twig and flower was silhouetted against the luminous sky. There was Bimba near the top of the 100-loot rain tree, her chain caught on some branches. We could get no help until morning, by which time she might be hanging life-less; sadds we turned and went indoors.

At daylight we were awakened by the familiar sound of the chain. There was Bimbo coming along the veranda to see who was awake

#### Serenade to the Moon

On another night, when free of her chain, she became bewitched by a full moon. She awakened as at midnight, calling from the very top of the min tree and looking toward.

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It was four that the teleron, decases that our satisfically a reco tast to be done designed but its out, always we but our red has its out, as a word tast the or it

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the same tend the golden and be low-marting wites and brimbous lumps entired her. Progress we reply the best to the low test and or. Is a factor, by his point we not her art at a subsequent of the end of a point.

### A Bird'soeve View of Operation Requires and Malours

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"In & How She's Grown!" Exclaims Roberts

Futting the 15 month separation between Roberta and frimbo.

The market with the first of the figure of the first of the f

select a fine upstanding young mate, and enjoy the freedom of her kind. But she utterly ignored them and answered only to our culls.

If we started out for a walk, divershe would come from some treetup and run along the path after us, complaining the while of our duplicity in trying to give her the slip. If we remained indicars, she would leave the trees and appear upon the veratula failing, calling for cookies.

One afternoon we beard plaintive cries from

far up the slope.

"Bimbo is lost" I said

"Nousense," declared the others.

I went out and called. As soon as she beard one, she thanged her cries and came heating from branch to branch to the cottage and her family. She had indeed lost sight of the cottage and was frantic.

#### Bimbo Warns of a Vicious Prowler.

Early one morning she seemed too agitated to eat, but tried to tell us something while baking anthously into the woods and clumbing appeares the length of her chain. Evidently she had been frightened during the night.

That afternoon Birden stayed hearer home than usual, while we stayed indoors to play our new 3-o'clock game of "Hush," This consisted of reading quietly while keeping one eye on an open window. Presently our pet hen would appear, gaze about to see that all was still, then hop down into the bedroom, so a vertal an open as ker by hard a regiond fly that cackling as only an agile Asiatic hen can do.

That night, as usual, we put the hen in a strong basket under the house. The next morning Bimbo was even more distraught. We looked around for a reason. Our pet hen, hasket and all, was gone, and in the dust must the house were the four-lack paw marks of a leopard.

#### Acrobatics in the Treetopa.

Back on the mission school compas after vacation, illimbo would make her rounds of favorite trees, bunting insects and sampling the hearts of any new flawers that appeared, she would take 10- and 20-host leaps through the giant rain tree, apparently sliding down the wind, and seemed to coast down the slip-pery frouds of the palm trees.

On dall Saturday afternoons she would appear at an open window of the school office, set hamped on the ledge, and watch the head-master trying to cate a up on desk wors. But not for lung. Sering that he paid to attention to her toy automatings, she would slep to behind him, give him a slap on the back, and

doct for the window

If this was ineffective she would return

pick up a paper off the desk, and make off with it, dropping it, however, lexide the room. As a rule she never molested objects up dressing tables and lesses after the manner of an inquisitive mankey.

Each they a small class of American children met on the upper versuals for school, with me as their teacher. Bird o loved the bustle and the moving of chairs late a circle for English teritations and the piling of books on desks for the most part she sat quietly in my lap as the children wrote, but protested when I would get up to inspect the work or to part

something on the blukboard.

If Latin nouns or French verbs were reviewed orally, she took exception to the use of such strange languages. Having sat still as long as she could, she would leap from my k p and put on her "crunken salier" act to distract the children and get a laugh. Solving a table runner or a towel, she would staged around the versada with her eyes closed, humping against the railing, the cloth drapes, over her

bit try to catch her! She was off like a fizeh. The only successful strategy was to seize one end of the cloth and then, in the ensuing the of war, grali her from behind.

### Peeping Tom Frightens a Guest

When running loose, Bimbo knew that before treaklast members of the family were apt to be in the bathrown. In our house the bathrooms were large and about as much a social center as the village well. Bimbo loved the sound of splashing water as the children bathed around the big clay jars, and the sight of laundry being piled and sorted for the washight. All this she took in by peering over the half curtains that covered only the lower portion of the hathroom windows.

One morning, while waiting on the vernedafor a guest to dress, we heard a muffled excamation of a arm from his room. The calibration dissolved into silent laughter.

"I'll bet Bimbo is boking into our gaest's

bathroom," said Kemeth.

"Are there wild animals around here?" asked the New York visitor in a guarded voice at breakfast

"Oh, yes, 'answered Kenneth, "The Jangle

is just a little way out of town."

"Is that so? In you know, while brushing my teeth this morning I was startled by a most unusual unimal, I lack and hairy, staring at me through the window."

At that moment Bimbo appeared at the duing room window to call for a piece of papaya.

"There it is again!" exclaimed the guest "I'll lare it away," said Roberta, pucking up half of her fruit which she had left for



Swinging by Proverful Arms, Bimbo Looks for a Familian Face Outside Her Class.

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# Just Like Old Times: Bimby Sps Down to Woffles with the Lorally

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#### Roberts Natses Bigher to Health

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With Prayer and Pageantry, Venturesome Deepwater Usbermen Ask the Protection of Our Lady of Good Voyage

### BY LUIS MARDEN

# With Color Photographs by the Author

go to sea."

Devoit Portiguese fishermen of New England's old port of Gloucester, Massarchusetts, who tally face the dangers of deep water, well know the truth of that old proverts. These men who wrest a bard living from the

sea rely on Our Laly of Good Voyage, as well as chart and compass. And once a year, in early June, the vessels of Gloucester's Postuguese fleet gather at the State Fish Pier.

to be t tessed (page 80).

travelers, has her own chutch, of Azorean style, built like on a hill, between twin cupalas stands an 18-foot statue of the Virgin (page 79). Homeward bound tishermen, approaching by night, often radiotelephone to share and ask that the statue be lighted; then the crew crowds the rail to catch its glow on the borizon, first landfall as they stand in for Glaucester (page 84)

A smaller figure of the Virgin—a wood-carving from Portugal—goes to the annual Blessing of the Fleet on the shoulders of proud fishermen (page 77). Four men from each vessel's crew take turns carrying the beautiful figure to the water front as the

church's cardion rings out.

### A Model Ship with Silver Spars

Gluncester's nest Blessing of the Pleet took place in 1945. Three years later the present statue, which had been carved from Brazilian cedar in Pôrto, arrived from Portugal abound the hospital ship Gul Fancs. Like all carried a of Our Lody of Good Voyage, she carried a

fishing vessel in one hand.

Portugal's Aminesaulor to the United States at the time, Itr. Pedro Teotonio Pereira, himself a lover of the sea, noticed that the bitle silver vessel was of Portuguese, rather than Gloucester, rig. Sending plans of a Gloucester schomer to Portugal, he ordered a new wooden model with silver spars and rigging. This is the ope the figure now holds.

Portuguese settled in Gloucester as rathy as 1842, but long before Columbus the Portuguese, then as now among the world's most skilled scamen, fished as far away as Iceland, and some think they reached the Grand Banks off Newfoundland. If they did, then the lortuguese, and not the English ancestors of

New England Yankees, were the true pioneers on the world's richest codishing grounds.\*

Some early Portuguese settlers came from the mainland, but most came from the Azores. Even today there are many in Gloucester's Portuguese colony who half directly from the

Azorean iskind of Pica-

American whalers of a century ago used to track at the Azores to take on a crew. Starta tion diet, poor wages, and blieful use of the belaying pin made many of these men go permanently ashore at the home port of New Bedford. From there many made their way to Glaucester to become fishermen.

#### Sons Prefer a Lundluboer's Life

Men have fished out of Gloucester since the 1620's, when the first cargo of salt fish was sent to kilbao to Spain, but today teletitlely few of the original lankee names are heard a mard Gloucestermen. Well before the turn of the century old-timers began to dissuade their sons from going to sea, because of the danger, hard life, and small remaneration. Sons of the men who sailed the famous old schooners came ashore to less ardrous and more probable occupations, leaving the field to loreign-both fishermen.

Of Glorcester's present-day fleet of 202 vessels, not more than 30 still are run by pative Yankees. Thursy-two are Portuguese, 100 Italian, and the rest divided among Nova Scotians, Newfoundlanders, Norwegians,

bwedes, and Finns.

Ironically, the cycle seems about to complete itself, for today a few l'ortuguese captains, still etect, "able-bodied seamen" when past 70, are beginning to advise their sone not to go to sea. But so far there has been no shortage of willing and able men to work and explain the Pettuguese draggers.

Harly Gloucester fishing was done from sloops and ketches, but in 1713 a different vessel slid down the ways. Her fore-and-ait rig combled her to sail fast close to the wind. The story goes that, as the vessel was launched, a man watching cried, "See how she second [skims]!" Her builder, Andrew Robinson, heard him, and so called the vessel a "second." Except for the spelling, all her

\*Sep \*1 Sailed with Portugal's Captains Couraespus," by Amn Villiers, National Geographic Magarials, May, 1953.

descendants took the original vessel's name. hop two centures the schemer was supreme, and before the end of the 19th renincy Glorcester's Beet betaled 500 Smil-

The Gloucester schooner reached the peak of design in the Gretende L. Thehmal, I will in 1930, which represented the United States in the International Fishermen's Races with the Istgemeer of Nova Section. Her slender black bull heel ag to a cloud of canvas was a glorious sight I sailed in her when Capt. Sen Pine contested the last Fishermen's Races in 1958. In Pebruary, 1948, while running cargo in the Caribbean, she hroke up on the breakwater of La Guaira, Venezuela,

So passed the last Gloucester schooner to work under sail. All base been lost at seaor converted to power, with diesels in the hold, topmasts removed, and bowsprit cut to It stump, a mere support for the forestay,

So many ald schooners were available for conversion that it is only in the last five years that new draggers have been built from the

keel up in the Essex yards.

The Gloucester fishery was founded on being Cost and associated groundfish—husback, hake, cusk, and halibut. When the early shore fishery became depleted, schooners tan 144 to Georges Bank, and later as far as the Grand Banks off Newfoundland. Once on the banks, fishermen left the goebored parent vesset and fished two in a dory, setting trawls booyed and anchored lines more than a mile long, armed with 500 to 1,000 books. The trawls, of French origin, were set in water 150 tr 200 fathams deep.

#### Stout Dories Have Crossed Atlantic

Davies, for-buttamed, double-ended boats about 16 feet long, have been called the world's most seaworthy small craft. Several three men have rowed and soiled them across the Atlants

The relient of the otter trawl, a purselike net fished by dragging along the bottom. helped deplete the state cod fisheries, because the net took so many fish at one sweep and raked up the brittom, destroying fish food. Incidentally, with the coming of the tin can, cating habits changed, and people ate less salt tion.

But draggers (so called in Gloucester to desting ish them from the early hack-and-line travelers); are the otter travel for most or the Ishing done out of Gloucester today, though they rarely drag for groundfish. Setting the nets higher for free-swimming school fish, draggers take enomicus quantities of occan perch, or resefish (Scharter marinus).

Succe this small red fish became popular as a facilish, about 1935, it has been taken in ever-increasing numbers, until today it makes

up about 50 percent of the Gloucester eatch.

Through I mg cu stom, New Englan lers stall prefer their end, haddock, or markerel. But ocean pen h find ready markets in the South and Midwest; the smaller fish more nearly resemble fresh-water varieties long caten in the Midwest, and the small illets are just right for the popular southern fish fries,

#### God Shures in the Cutch

Portuguese and other Glaucestermen lish on a Lay basis, ship and crew sharing proceeds of the catch. At the end of each voyage the crews of Postuguese craft set a certain anoment uside as "God's share," to be given to the Obtach for charitable works

Early Gloucester skippers sailed by "compass yourd ags, and personal ju ignent" alone Today the draggers use radiotelephone, radur, depth indicators, and even locan, the longrange electronic pavigation system that traceinvisit for streets and greaties on the regards gray wastes. Yet, despite power and modern. navigational mais, the sea still exacts a heavy toll.

Few fishing families of Glouvester have not puld tribute to this hard mistress. From Gloudester's beginn nes as a fishing poet until the present time, more than 1,040 of her vessels and 8,000 of her men have been lost

oi sea

Alon were mashed overhours; schooners went down in northeast gales. Thick white fog took many lives when men in the dades. lost sight of the parent vessel and could not find their way back, despite mournful blusts of the schooner's horn. Some lucky few rowed t, land their feigers frozen round the ears

The danger of an bor cables parting added another hazard to winter fishing on the banks, Men peering through swirling snow would sometimes see the gray ghost of a drifting vessel bearing down on them. Then the nanstanting by the anchor cable and to swing his sharp as instantly, for it a drifting scheener crashed into an anchored ve-sel in rough seas, both were almost rertain to go COWIL.

Many lishing vessels were simply never beard from again, victims perhaps, of a hurrirane, the screaming wind that the tough men of Glaucester called an "August breeze."

At a Blessing of the Fleet, the Most Revcreat Richard J. Cashing, Archbishop of Boshirt, saidt

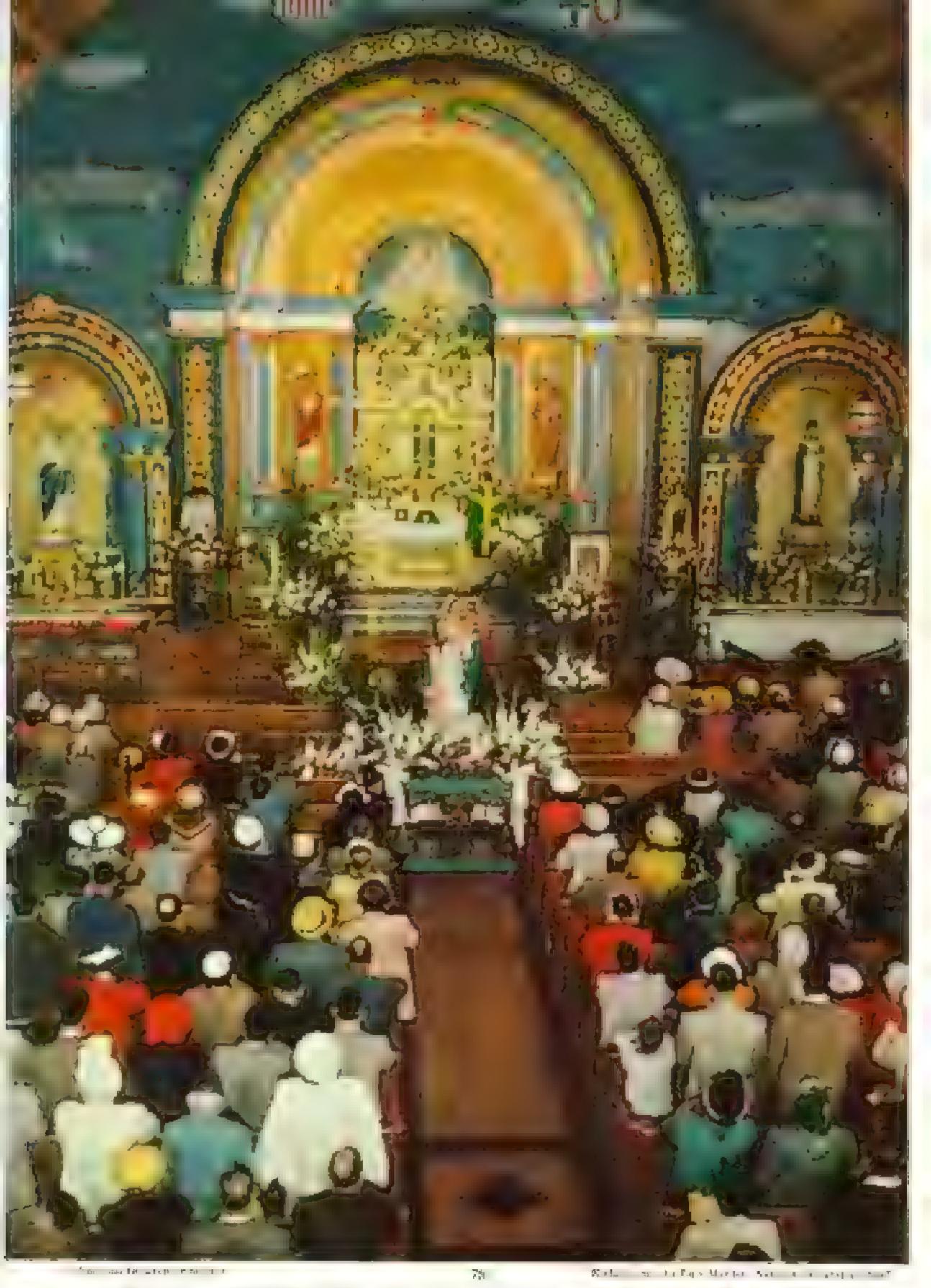
"The patatal victues of a fisherman are two-trest in Cosi, and perseverance. Toiling on the sea bus taught them both."

And so, despite all bazards, the men of Glogcester will continue to go down to the sea to reap the harvest of its waters. And the seaknowing Portuguese will be among them.



Glenecster, Mussach mens, Fishermen Take Terns Corty, ng thur hads of Grad Voyage

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Fishermen and Their Families (few Mass Before the Yearly Blassing of the Heat of the Original Internal the Maleinanian is that of Mass Before the Yearly Blassing of the Heat Road Read For the high the last of the Heat of the Annual Control of the Property





A Birrip in Chipe and Mirer Blesses the Fishing Vessels. Thousands Jun the Winter Front



Our Lady Visits the Ships That Ask Her Protection. Platagar's blag Hies Beside America's



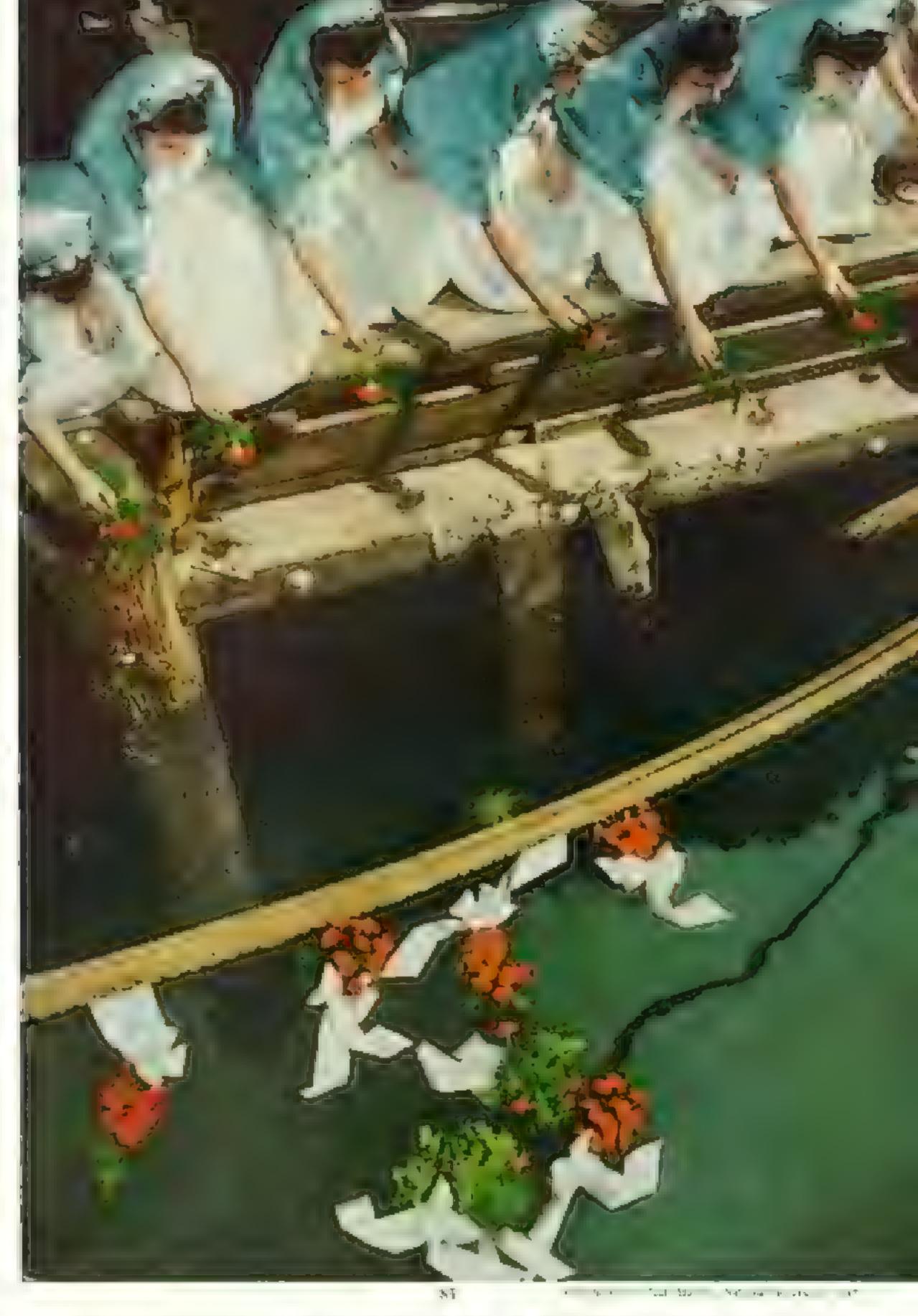
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Girls in White Strew Clare many on the Philips Tide a Memory of Men Lost at Seq.



A Ship of Her Arm in Iduminated Statue of the Vilgin Welcomes Fishermen Home.

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Consider Perry and His Back Slips Clarge, the Course of History by Ending Japan's Seclusion a Century Ago Tree Month

## By PERDINAND KURS

1853, Commodere Matthew Calbraith Ferry of the United States Navy opened Japan to the outer world.

He broke through a wall that had hidden Japan from Western eyes for 216 years. In some so, he change I the course of history.

Other American naval committees have reshaped the future in a single battle—Dewey at Manila Bay, for example, or N mits at Midway. But Perry did it without firing a shot

His weapon was diplomacy, backed by a willingness to use force if he had to

#### Pestival Recalls Commodore's Landing

For the terrified Japanese of a century ago, Perty's steam frightes were the "black ships of the evil men." They spewed black smake, they moved without oars, and they churned up Japanese waters that were supposed to be inviolable.

But because Perry did his work with all bloodshed, because he dealt with the Japanese with dignity and faitness, he is remembered as a stern benefactor of modern Japan. And the arrival of his "black ships" is commensurated in a local festival every summer by the descendants of those frightened Japanese whose country he awakened after a sleep of centuries

Today, if you stand at Perry's first Landing place at Kuribama, 30 miles south of Tokyo, you can span a humbed years of history in a single view (map, page 90).

The sucrette lines have not changed appreciably since Ferry landed. I know they have not changed, for when I went to Kittingma with my son Philip, a student at Harvard, I took with one a contemporary drawing of the beach as Perry saw it a century ago (page 58).

At one end of the conscent beach, to the northeast, is the tool bearfand behind which Perry's ships first unchosed. At the other end the land rises in gentle contours as green as the hills of Ireland.

On the landward side are the tiny roce helds and cottages of Kurihama. And looking out across Traga Stealt, at the southern end of Tokya Bay, you can see the dan outlines of the mountains of the Boso Peninsula on the opposite shore.

Perry saw this same placed background but the scene on the beach was vastly different on the morning of lds lauding. According to

the official account he submitted to Congress, the curving beach "was gav with a long stretch of painted sevents of the th, upon which was emblazened the arms of the Emperor.

"Nine tall standards stund in the centre of an immense number of bunners of divers lively calors, which were arranged on either side, until the whole formed a crescent of variously tinted flags, which flattered brightly in the says of the morning sum.

broad pennons of tich scarlet which swept broad pennons of tich scarlet which swept the ground with their flowing length. (In the beach in front of this display were ranged regiments of soldiers, who stood in fixed order, evidently arrayed to give an appearance of martial force.

When I saw Kurihama not imag ago there were no "regiments of soldiers," Children were splashing happily in the waves at the water's edge. In place of the scarlet pennon-and thattering flags were rows of ine-story teamouses and soft-drink stands. Where a clutter of houses stood in 1853, at the southwest end of the heach, a big ice factory now stands as the only major change in the land-scape.

### A Monument to Perry Survives War

On the spot where the Emperer's representative received Petry and his retinue, a 33-fact grante shaft honors the great Commodore in a smuly enclosure known as Perry Park.

An inscription in English says: "This montiment commencements the first arrival of Commodore Perry, Attilassador from the United States of America, who landed at this place July 14, 1853. Exected July 14, 1901, by America's Friend Association,"

The monument has stood as a symbol of American-Japanese friendship for more than half a century, with only the interruption of the war. It stood through the years of bitter fighting in the Parafic in 1942 and 1943, but in 1944 militant Japanese patriots pulled it down. After the surrender, it was put back on its massive base as a sign that the Commodore was not forgutten.

As I looked out from the monument to the brilliant blue of Uraga Strait, I saw a big merchantmen at ancher where Perry's ships guarded the first landing. I read its name through binoculars.

It was the American Victory.

Perry's opening of Japan was indeed an



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Thus the relief factor was a gold; he hind in a way who pure word, and for W1 1 19571 \* 135 W

If someone had to do the the descrips Japan, Matathew Perry was the ideal man. His bather alone was chough in give him authority in the Navy. His father, tour brothers, and two knothers and officers.

#### Perry a Stern Disciplinarion

who had died long before 1853, was the cashing, churning Oliver 1, zard Ferry, the loss of the Eric in the Battle of 1812, the author of the famous report "We have met the course and they are ours."

that Matthew Ferry so, yeth or heret the interest in looks and in personal ty. Her was known in the Navy as Old Matt." and some ness his men talked of him as "Old Brain lay 1853 he was almost of years old, proud and partly, blant in speech and something of a action to his ness

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conveniently prints (apposite page).

Sathaniel Hawthome described him as arisk, gentlemanly, off-hand but not rough; unaffected and sensible." He was indeed sensible," and so businessine in his experimentions for the forthermic. The action what to read some 40 hooks on Japan before he are like supplied and trained his expedition as if it were going off to hight a serious man.

With all his steraness, the Varley of the from Rhode Island had a soft spot in his least his children, although he don't always understand them.

at resign the spring the firmly of the firmly



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Beery's Man Called Blum "Old Matt' or "The Bran"

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boother Oliver, thus dead, before sading for the tail had. He seems his Sevent-to give ter new, I must be to be a being the wester y to the to round to be a with me.

#### Harmas Dashie Dill to Pack

To pourgeter disappeared like a shot are the Commadore had to go scarching for him in the attic. He found the boy packing his belongings in an old sea chest, ready to go

But Thomas due go to Japan, decodes later



# Kurland Beach His Changed Link. Since Perry First Saw It in 1853.

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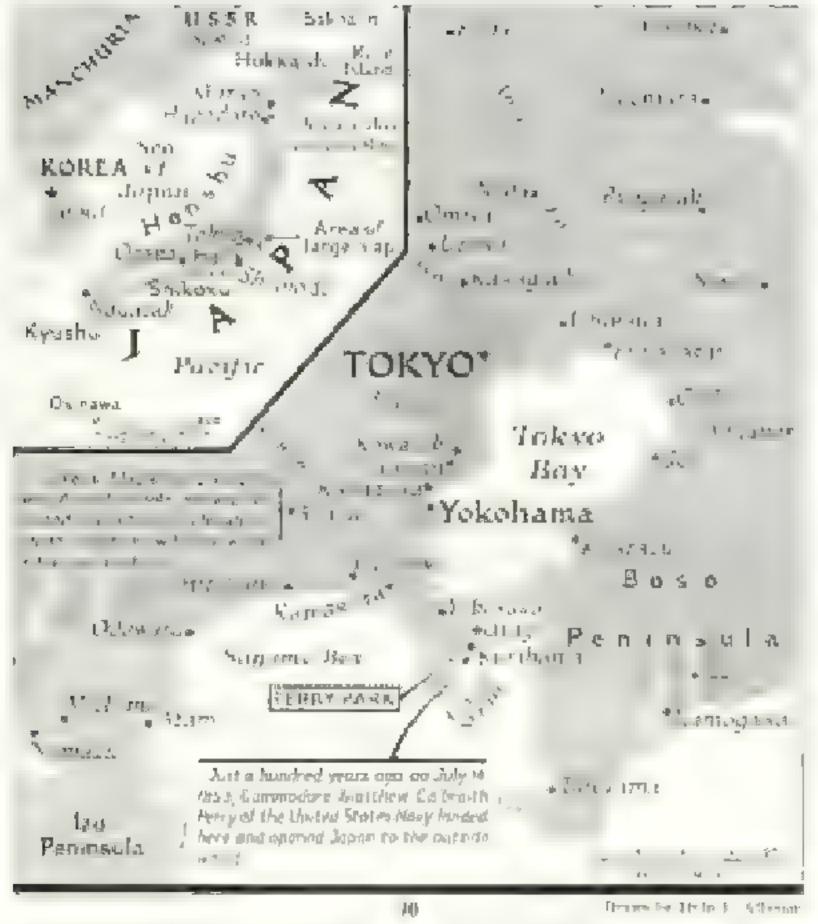




Americans Land on Japan's Forbidden Shore with a Letter for the Emperor

I prophable to the first the second of the first terms of the second of





Percy Saw Farms and Huts Where Busy Yokohama Sprawta Today

Here, in Tokyo Bay, Perty secured a frenty promesting protection for ship-wrocked American and opening the porty of Shimoda and Flakind he to American trade (most). The Community's a naines were at Kurthama and Yokokama.

Logish literature at Kelo University in Logyo, And Thomas, in turn, had a charming daughter who became well known in Japan, not only as a Ferry but as Americas First Lady in Tokyo for 10 years

She is Mrs. Juseph C. Grew, the wife of the last American Ambas ador to Japan before the war.\* In her home in Washington not long ago she showed me relics of the Perrys, and Japanese prints of the arrival of the Commodore in his "black ships" a handred years ago.

#### A Spy Warns of Percy's Plans

Three steam packde-wheelers formed the train ships of l'erry's squadrou. The Commodore knew the value of steam ships; he had pluneered in developing them for the Navy, and his first flagship, the Susquebanna, was of respectable size—257 feet long, 69-5 feet broad, with an armaneut of six 8-facit guns.

The Mississippi, with the Commodore absert, steamed above arms the Atlantic to Cape Town, across the Imain Ocean, and north along the coast of China to what is now Okinowa.

I room Oklaswa a Japanese spy secretly relayed news of the Commodore's plans to Japan, so that the Japanese authoraies experted him when he arrived

But the sight of his ships off Usaga spread consternation. In Yedo, now Tokyo, thousands first the city, thousands that the great ships with their cons would destroy their homes.

#### A Skin's Whistle Strikes Terror

Little Japanese guard boats clustered like gasts around Ferry's black monsters (page 96), but the Commodore would let no one almard except persons having official masiness with the expedition.

Planenth blew her whistle, the entire crew of one of the gunt d boats dived overtourd in at ject terror. Althrough the first alght Perry's sailors saw bear cott fires abowing on the hillsides and hear I the

tolling of a great bell, which they took to be an alarm signal.

Perry had thought of everything; he had even brought a Datch interpreter along, supperting, correctly, that Dutch was the only European language any of the Japanese would know

He knew that he would had a highly sophisticated society in Japan, but he had a surprise when the leading functionary of Uraga came abound in a rich silk rone embroidered in a peacoex-feather pattern.

Petry's ofmers showed the official and his aides a glube of the world. The Japanese promptly pointed to Washington as the eaptial of the United States, and to New York as its business center, and they also identified England, France, Denmark, and other construes of Europe without the slightest besitation.

With a combination of tact and iron farmness. Percy convinced the Japanese officials that he would insist on delivering a letter

\*See, in the Namonal Geographic Malarine. "Japan and the larthe." by Joseph C. Grew, April,



A Model of Perry's Smalley Soils the Tule Havin in Washington D. C.

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I a juret, and in pa one else. He said he formed a procession that matched up to a war to do it next Tokyo and not at Nagasaki, where the Jupanese had tried to sur! him

After six class of cold but courteous line gaining, a bending was arranged on the beat. at Karlhama, just around the headland from the squadron's an homee.

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way could took great page to make sure that his own landing yould have the gre to est preside effect on the Japanese rice sent a long time in front of a mirror, combing his unruly hair and buttomer limbs of the will full-dress and order alter of the way to be summer's day

Thirty, with all the mainty of an emperor be wert ashore

from the President to a representative of the With the hards still playing, his men temporary building warm the Emperor's representative was writing. Percy de per show that this spekesman, the "Prince of luzu," was only a miner functionary from Osaka pamed T a a

> The Japan or ... given Toda high nort. just for the occase of their had refused to send any one of really blub station for the dehesteful and homiliating task of receiving a letter from the faceign " arbariage "

#### Golden Gasket Gourds a Letter

With eliborate ceremonial. Perry delivered the letter in a box of rosewood and gold that had cost \$1.0 costs and \$ - costs was President Fallmore's automatable land Do To

A bave on other object it will a land [Commodere Perry] to Japan, the business wrote, "but to propose . . . that the United States and Japan should live in friendship and have communical intercourse with each other

The I are tution and laws of the United States forbid all interference with the religious



With an Emperor's Digity Lerry Approaches the Totaly House near Yelsohann

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Christian Villagors Cope Bellind a Well of Marinan While Laurenes Fire Salquas

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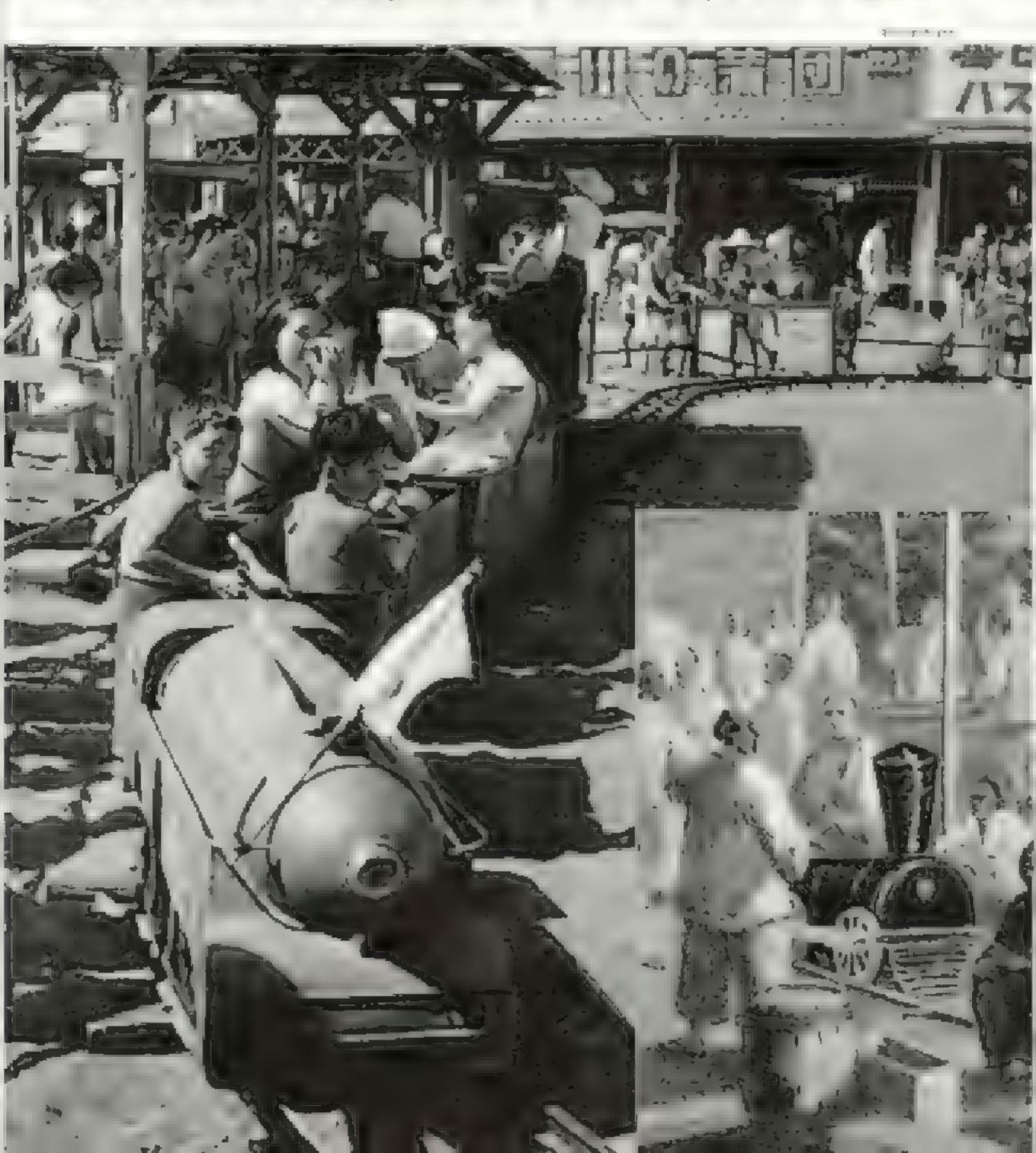
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# Telegraph Buffier. Train Deaglas

All these gift, were obtained carried out the beach near Yokohama after Percy's second took it. The test inh instrument caused much pustionent; some who saw it raced took the ender to the receiver and could not under took how messages could travel took it that there is that there is no ender to the receiver and could not under took how messages could travel

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Within 20 years the first real radway line in Japan was in full operation over the 18 mile stretch from Yokarman to I was finite Japan 1. The and tunneled in the 17,000 miles of track. The enter such that its next encouragement to the Norman Commodore

Perry soon learned that the Emperor had answered the President's letter and war and to make a treaty. Another pageant, more had than the first one on the Kuribama sands, was arrunted for the signing, this time at what is now the busy metropolitan part of Yelohama.

#### A Cruck in the Wall of Isolation

He treaty of March 31, 1854, pried Japasops a by at least a crack. It opened the parts of Shimoda, 80 miles southwest of T land and Hakadate, and the northern island at the klasifo, to American ships; it term 9 I have edited trade between the two courts and it notherized the first American action representation in once sociade I Japan

# Toy Lucous tive at Karaikara's Annisement P. ek Recalls Perry's Cuft to the Emperor

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A few days later the Americans reciprocated with a feast on board the Lenghatan, Relow riesk, a rable was set for the Commodere, his a aptains, and the high commissioners of Japan. Datrhors, on the 42-foot-wide deck, long tables were set for Perry's salardinate officers and the lesser functionaries (page 97).

The Commodure had taken good care in make it a lavish feast. The tables were loader with beef, lumb, and positry, fish, vegetables, and fruits, and with umple supplies of time when. The Japanese, according to Ferry's ofacial report, drank "tomanni ered glasses" if therepague and manuschino, and the party was uppractions before the climer on le l.

#### Leftovera Go Inside Sleeves

One of the observant Americans at the slumer was fedward Yorke McCauley, a Perry sar of who later became a rear admiral. In his disry McCarry wrote that a new phase of the badquet began when the eating had ended

All the Japanese except the interpreters, he wrote, "left their scats and commenced pocketing all the edddes they sould lay their hands on, wrapping each piece of pie, si se of bref, leg of chucken &c in a piece of paper, depositing It in the lag of their capacious STORY OF THE

Who could blume them? The American found was new and strange, and, besides they were simply following a polite Japanese custons of those days—a custom which the Commodore and his men were asked to follow when they, in forth were aftered a dumer of fish soup, raw and cooked fish, rice cases, and aske on shore

After the hanquet on the Posshetan the Americans put up an old fashioned hingted show. Hones and Sambo, in blackfore, went through their usual antics, and even the chief I prove pegoliator, Prince Hayasht, the ..... be for of the university in Tokyo and the Chief Confuctan Adviser to the Shagun, shook his stately sides with laughter

#### A Parting Embrace for Perry

The enampagae must have been effective; for, as the Japanese were about to leave the ship, one of them thiew his arms around Perry's neck, crushing a new pair of epaulets in a embrace and saying, in fervest Japm . Suppose and America, all the to . . . · Lac. From the Di the official toength is the distribution of the engineering with a a salute of 17 guits bounted from the Sara-Carrier .

Recause the Japanese authorities kept them. within strict limits, Perry and his men citald. see fluid of the country. From their ships the Americans could bear the bells of Toxyo, and once they saw, dimly in the distance, the crowled wooden houses of the tapital city. On land they were limited to a curtuit of unly a few miles.

Their wilks ashere were enough to show them the beauty of the scenery, the reatness of the other smaller of the control of tiny fields, the courtesy and friendiness of the people. Strictly off limits to them, apparently. was the must purture-que place in the rulie neighborhood of the ranchorage: the ancient capital city of Kamakura, with its 65 temples and 19 shrines, and its wondrous relate of mer ieval Japan.

One of Perry's ships, the Maccioman, went aground off Kamakitra on the second togage. The Commonte anchored there during the refloating operations, but he knew the place only as a dangerously exposed anchorage, open to the wipe, and the western Partie

41f its shrices, the most functors is the contemporise Dadwisu, or Great Buddhu, 43% feet high, a ballmark of Japan as familiar new as Big Ben in London or the lane Tower m Paris. There is no record that any of Perry's men ever saw it, olthough it is only six miles from the shure of Tukyo Bay,

Today Allied soldiers on leave from Korea and sadors from the Yukosuka naval base visit the Great Buddha in draves. Its serence rejuse seems to cost a spell over them, for they show it animaculate respect as it slitates.

#### Buddha Echoes to "Alogette"

When I was there I heard something, coming from among the trees near the statue, that would have horrifed Perry. It was boogiewangle echoing from behind a sign that advertised the Hatel Buddha. A Japanese hamwas trying to master the thythus of Hutlen. and was having trouble oring it

The pand gave up whet, a lasty plateen of French-Canadium soldiers in berets invadent the Hatel Raddon, singing "Aloactte" at the top of their voices. They palavered politely with the band leader and asked if they might

borrow his instruments.

Soon the Canada as were blaning and shouting their cheerful song so loudly that the Buddha uself almost elenabed its palms in army ish:

Atobet-te, gentille Alauet-te. Alonet-le, je te plumetat .

The soldiers were men of the Royal Twentysecond Regiment, a unit made up platost enprety of Freich Canadians and known from Ontaria to the Maritine bravinces as the Vingt-steakieme-pronounced in Eteoch Canada as the "Yanshing,"

To millions of present-day Japanese in the Tokyo area Kamakura means not only the site.



111

# Bearded A re, Services of Japan's Probistics e People. Sus Proudly Among His Traphies

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#### Medieval Marriers and Garlias Welcopy, Visitors to Shinada's Illiah Sing Jastivil

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# Piest Cansal Premated Good Will

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along a single main street. Today at is a busy port of almost a quarter-million people and the terminus of the rail (erry that links the 414 million on Housakho with their country-

men on the much island of Housing.

the of Perry's armed storesalps, the Santk-company, paid a visit to Volcano Bay (Uchlura Bay), ringed by several volcanoes, two of them belching smoke at the time. There the salors found some of the true curlosities of Hokkaido—the Ainus, the primitive people who were living in Japan before the am estors of the present-day Japanese arrived."

#### Ainus a Vanishing Race

One student estimated that in the 17th century there were 200,000 Ainus on Holdwide. In Perry's day there may have been only between 20,000 and 30,000, chiefly because a smallpox epidemic had almost wiped them out It century before

The Southampton's commander described them as sport " out web proportioned, with intelligent features," and noted their "very black,

masse hair."

Today only a bandful of pure-trionded Ainus survive in Japan. My son and I visited two survivors of this departing case in their log brase at Sh raoi, on the southern coast of

Hokkaidu (page 100)

They had taken Japanese names—Mr. and Mrs. Inosuke Miyamot a and of course they spoke Japanese. The man, at least, had the high cheekbones and other features of a Russian peasant. Their eyes were deep-set under bushy brows that reflected the mild and friendly disposition for which the Ainus have always been known

Mr. Miyamote had a long white beard; his wife had tattooing like a mastache around fee lips. The old couple was sented on the floor, facing a half-circle of Japanese school-children who were watching with as much wroder as our children would show for a full-

falonied Indian chief.

With a soft and gentle voice. Mr. Miyamoto oescribed his explaits to hunting bears, which from time immemorial has been a major occupation of Ainu men and the mainsary of Amazofald see. The old man pointed protectly to the provious languer jars which the feudal lorus of old Japan had given his father and grand-tuber in pryment for bearssars.

What if Perry had not opened Japan? Would it have been better, for Japan and for the rest of the world, if the lacques curtain

had not been pierced a century ugor

I be questions are misleading: Japan would have been opened anyway, even if Perry had not gone there. Great Daitain or Russia surely would have done it.

Perry himself foresaw an eventual can-

that between America and Russia which, ite said, would determine "the freedom or the slavery of the world". Has official report to Congress in 1856 noted that Russia had pursued its expansionist aims "noiselessly" but persistently, with the hope of controlling both shores of the portnern Parific Ocean.

"If she possessed Japan," the Commodore reported, "she would have an abundance of harbors, unrivalled in the world for excedency, and with her resources would control the commerce of the Pocific. It is not, therefore, the harbors of any part of the commercial world that Russia should ever soon larger."

that Russia should ever own Japan."

If any lorelyn nation had to open Japan by the threat of force, probably it was fortunate that it was the United States. Neither the old Commissions nor his Government ever sought to "own" Japan or to take possession of an inch of its soil for the United States.

trade and friendship and to what he honestly believed were the blessings of Western civilization

1.04

I have often talked to Japanese triends about Ferry. They know the details of his expedition: they had learned about it in school. In the old days, many Japanese booked apon it as a pational homitiation, for the Japan of Perry's time was defenseless and worldly asleep to its own kest interests.

#### Japan Quick to Learn Western Ways.

Let intelligent Japanese now bonor Perry as the initiator of 50 years of dazzling progress. In the half-century from the signing of Perry's treaty to the start of the exhausting war with Russia in 1904, Japan annaed the Western World by transforming herself note a preferr state

She developed a banking system, a tailway network, a merchant marke, and in lastries; she absorbed the technology of the West and at least the forms of Western political Institute as well. It was only in the second half-century after Perry that Japan took a wrong turning which led her to the disaster

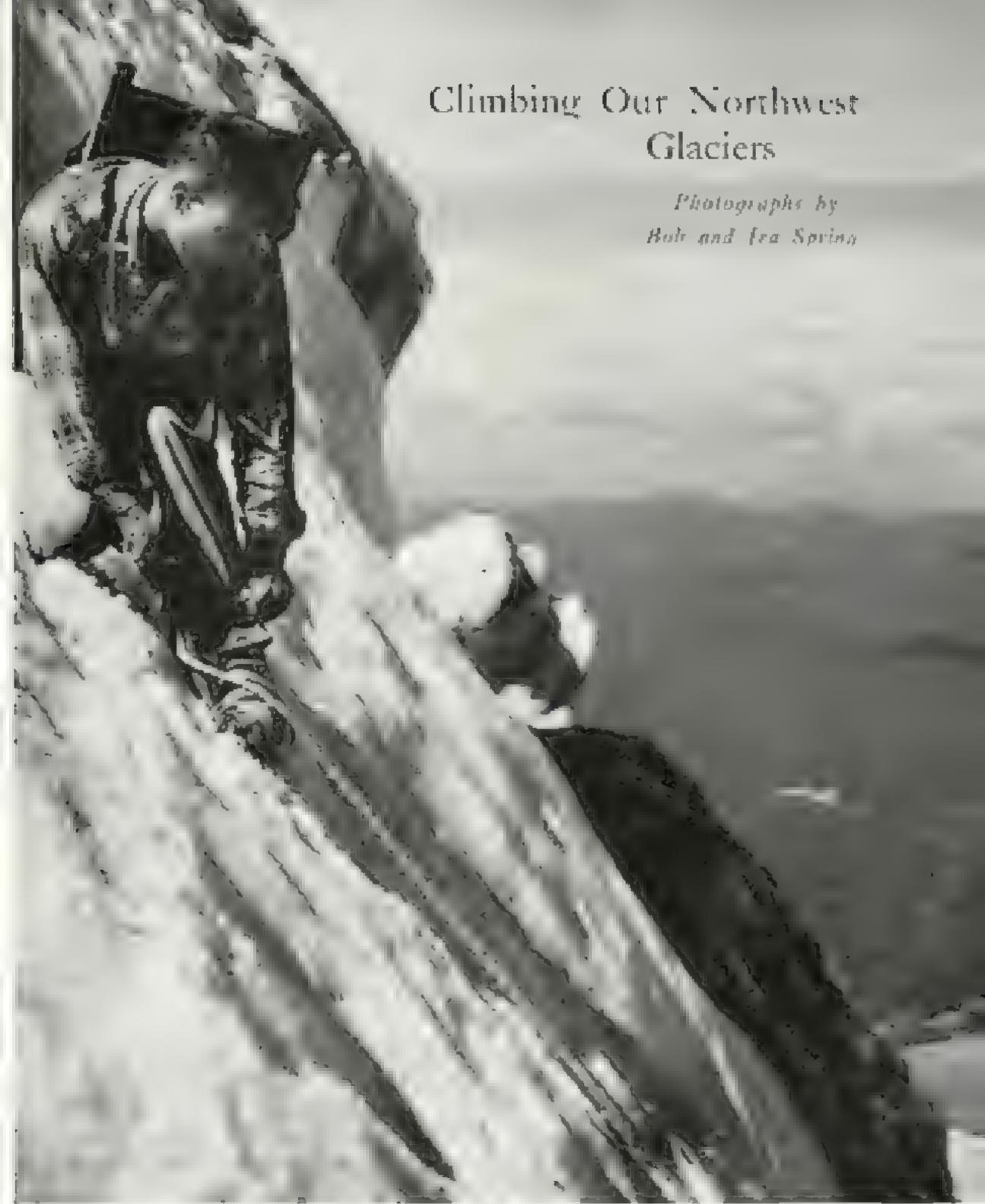
of malitarism, war, and defeat

Today her thoughtful leaders wish their country had continued on the course of peaceful progress that Perry started.\* In Ja and is in the United States, the thickset figure of the Commodione looms larger with the passing years; and his "black slope," once so menacing, are temembered as the agents of a unitional liberation.

\*See, in the Nameau Georganine Managive. "Enemaly Journeys in Japan," by John Patric April 1986

\* See, in the Nava was Grounder of Marcopar.

"Japan Tree Freedom's Road," in Products to Vocaburch May, 1950



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#### It's Saults a Report Yound II's Anchored by As to Support Climaters Below

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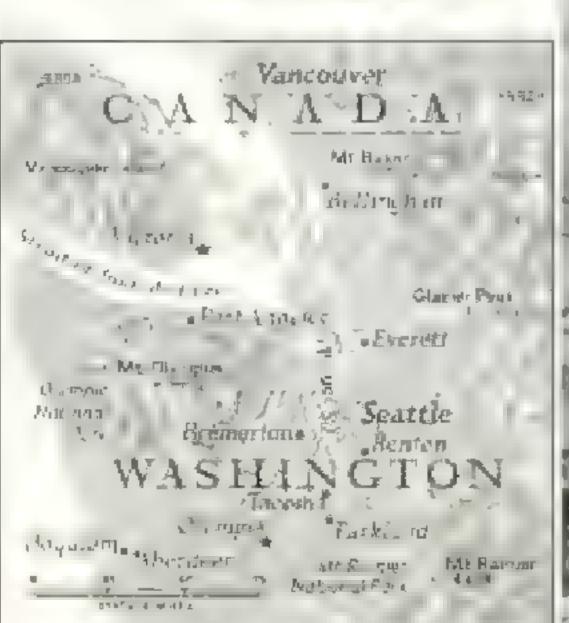
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# "Chane and that "Find" Puncukes Hot the Griddle

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#### Dwarfed Adventurers Thread a Make of Tortuous Chasma

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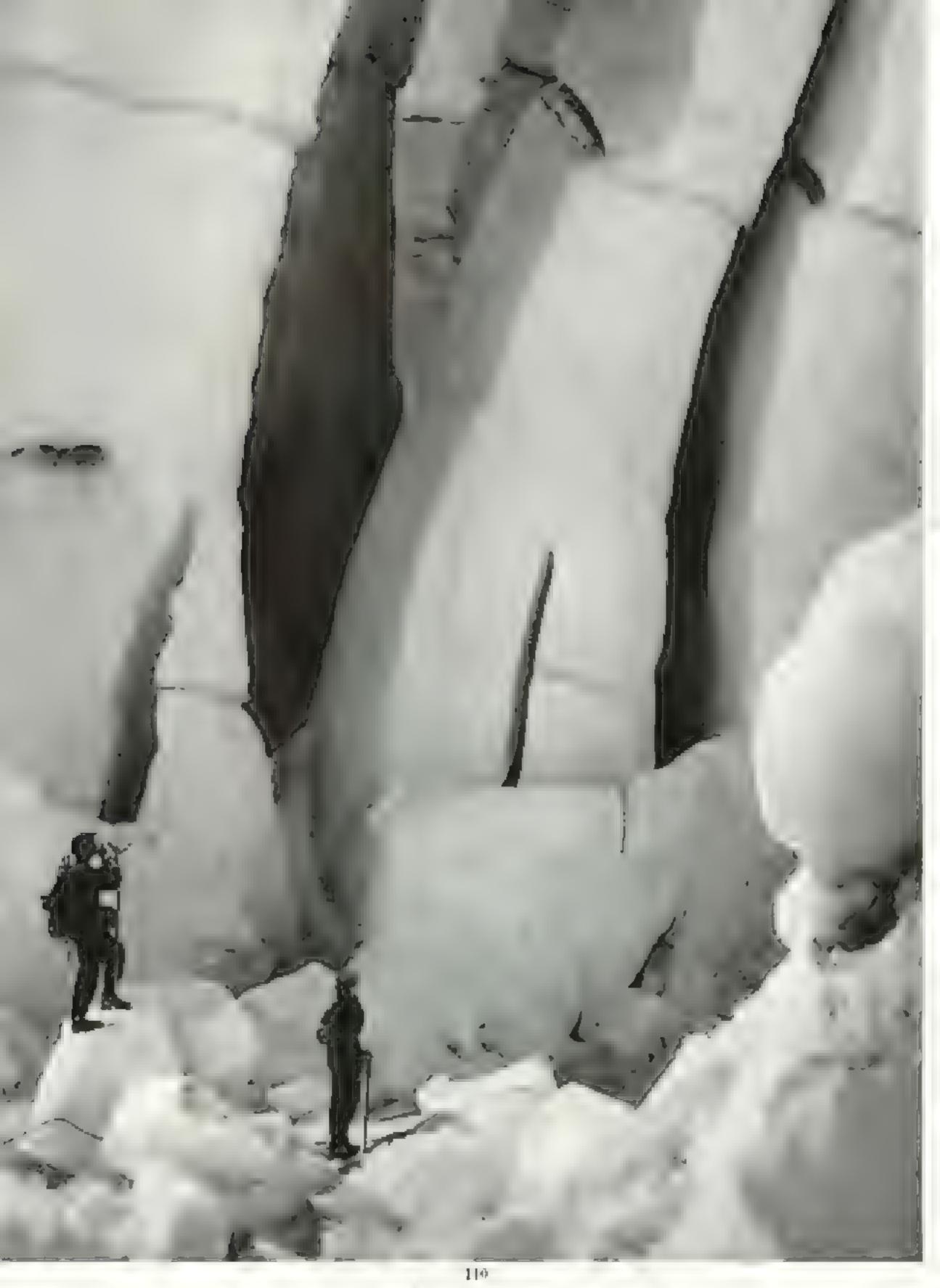
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### Dublin's Historic Horse Show

Hast Livers in Both Sides of the Malaite Hall This Annual Event on Ireland's Green Old Sod

BY MAYNARD OWEN WALLDASS

With Color Photographs by the Author

TA SEARLY and one in the form from Virginia or the Argentine to Saga-A pure, Horse Show Week in Dublin evokes a cherished memory or a strong hope. To thousands of Irish horse eathus. 1945 the competition every August in the flower-bordered, green-turked enclosure of the Royal Dublin Society is the meeta of their dreams,

If the famous horse show itself, like a tall hunter or fine filly, could have a pedigree, it sulght rend "Social Event," by "Royal

Public," out of "National Price

As early as 1867 the Royal Dublin Suclety, pledged to himprove the Husbandry, Manafactures, and other useful Arts" of Ireland called the attention of Parliament to the near for more and better sires. A direct result was the first Datilin Horse Show under the society's auspices the following year.

#### Horsemen Treasure a Dublin Rosette

Today the prestige of winning at Dubian is world-wide. Cash prizes are offered, but the seal reward is the red, or red, white, and blue resette of victory, which a winner corries in his pointh past admiring thousands while his horse dames as it for the joy of it all (poste 1241. The big event is the Grand International Jamping Competition for the Aga-Khan Challenge Trophy,

During five busy days more than a thousand harses compate. Class, not cash, is the keynote. When two high-stepping harness mores from England, seemingly tut from the some black with, strut to the applause of noise lavers, everyone knows that these exquisite equines are working for sheer pride in

their provess, not for mobey.

In the Bhacktock Sale Padonik, across Merrico Road from the show ground at Hall's Bridge, nearly a thousand thoroughpreds are sold at auction.

On the hist day some untried yearling. but future winner, may bring only a few

hundred pounds.

(In the second and third days prices may be higher. For example, a chestnut colt by Royal Charger, out of Four in Hand, sold f ir alient \$10,000.

Horses in training and untried thornugh-

I reds are sold on the fourth day.

On the final day, but we entered in the show classes thange hands. I photographed one horse that was withdrawn when hids were

only \$11,000

With an Irish companion I walked along in front of the diplomatic boxes for a preview of the jumping enclosure. A reat bedge of atternate green and gold privet encloses a

half-mile eval of greensward.

In the wade enchouse were the six permanest jumps: bank and ditch, single bank, stone wall, hurdle, double bank, and water For some events as many as 10 by fences are added. These additional partiets deliberatesy test skill as well as power. R ders sometimes lose their way and are disqualined.

#### Time Counts in Case of Ties.

Oroinarily, speed counts no more in jumping than in galf. But an automatic timer is the deciding (actor when several horses triumph over 15 or 16 barriers without a single fault for a "clear" round. In the final, and timed, round of one jumping event I witnessed, six horses had faulthess rounds and hoished within a time of flerence of eight seconds: the fastest won.

Opening day two years ago, Thesday, August 7, dawned dark, with drizzling tain, but when I arrived, soon after 9, grooms and handlers had been at work for hours, giving an extra polish to a shapely flams or broading a mane

(page 122).

In faur rings at once far Julging of rearly 100 heavyweight hunters. 100 medium weight hunters, 138 lightweight lamters, and many 3-year-olds, 2 year olds, and yearlings began. In the jumping enclosure thoroughbord stallions, yearlings, I rood mares, and folds were parading on velvet turi while judges oppraised each entry

the that first day 110 jumpers competed, and I saw such muster riders as Capt. Keym Barty. of Ireland, Lt. Col. Harry M. Llewebyn of England, and Dublin's own Iris P. Kellett in

action (page 117).

One headling for Wednesday was "Ru i Puts Damper on Horse Show." That was true for the crowl. But the interest of the expects remained at full heat. Judges to de one locatiful horse after another, risking their spines as well as their repulations.

On Friday the sun appeared for the must important hour of the whole show, the Grand International Jumping Competition for teams of four horses. I stood on a small coment platform between the diplomatic boxes and the
western coul of the grandstands. I has naily
across the oval, 250 yards away, crowds
packed the rootless bloochers. To the northeast the view was closed by Anglesen Stand,
with every seat filled. Judges and announcer
occupied a glass-walled box in front. At the
left end, the members' stand filled a cerner
beyond a row of second-story diplomatic
boxes.

Off my right shoulder stretched the grandstands, packed to capacity. In front of them: a tremendous growd haggest the rads.

The President of the Itish Republic, Sean Tomas () Ceathrigh ("Sean T. O'Kelly" in the Dublin newspapers), was escorted to his seat amid the nelevous acclaim.

Saxteen splended horses, 10 of them bred in Ireland, represented Spain, England, Italy

and Ireland (page 120).

Preceded by two bands, they passed the Presidential box, showed their left flanks to aplomatic row, passed the members stand and met the full-throated cheers from the towering Anglesea Stand. Both brass and kate blands were playing The Wearing of the Gerror, but the atmosphere was Pomp and in 1907 and

#### Sumping for International Honors

Than the vast emboure was empty except for a lone horse and rider, a tiny pattern on the horse velvet oval. Spain's Lt. Col. Joaquin Nogueras, on Master B., was starting the first of two rounds

This contest between England's civilian team and three army teams was for the Agrichan Challeage Trophy. The contestants must clear the six permanent jumps, as wed as 10 extra jumps such as Railway Gate. Rust a Gate, Road-Closed Gate, Brick Wad and Fole, and, most popular for the general of the 'in and out' - Triple Hedges and love only a few strates apart and counting as three.

All contestants knew the course, but the arrangement of the barriers had been changed. Irish-bred Aberlow, brighand's second starter, took the wrong course and was eluminated. Since only the three west sources for each team are counted, this did not mean disaster.

traly's Briacone, bred in Germany, lost his way, but the crowd shouted a warning in three, as it did to another Italian entry, Gian, bred

n dialy,

the time allowance for the course proved generius, but since both longiand's Foxburter and Ireland's tilengariff were tied, with only two banks out of a possible 128 for jumps alone. Foxburter, "the best known jumping horse in the world," won on time.

At one amment freland's charges seemed excellent, for Ormande had a "clear" first round, except for a misstep at the single bank

England's team won this 1951 event with a total of 30 faults, including only two by Foshumer. Ireland was second; Spain, third,

and Italy, fourth.

irresident O Kelly, in dark coat and gray topper, came onto the field and presented the two-gallon gold cup to the pink-toated Englist team, led by Lieutenant Commet Liewellyn while the bands played Great Britain's national anthon.

Unfortunately, the 1952 show followed so soon after the Olympic Games that rivers competing at Helsinki could not ship their mounts to Dublin in time for entry. As a result, the coveted Aga Ehan Trophy was not offered.

Horseven representing France, the United States, England, Italy, Treinnd, and the Neth-erlands did match skills in a stirring un divid team competition, won by England. The results of several other traditional contests also were unoficial last year.

#### Show Finds with Bargain Day

Having watched the big 1951 show, with smalling skins, for more than two hours, some visitors drifted away to ten patden or flower exhibition. But tens of thousands stayed on to see hearly 50 houses in the Consolation Competition. Appropriately named, the winner was Happy, and the big day was done

Saturday is bargain day. For 14 cents anyone can enter the grounds. For 14 cents more, he can enter the grandstand enclosure. Those who braved the rain saw two of the

finest events of the show,

Ballyblack, a stardy veteren of many a year, broke the course record with a high jump of 6 feet 3 im hes on his sixth jump. His owner, Mrs. R. G. Garland, of Newry, in Northern Ireland, is an American.

The other saustanding event, the Interautional Jumping Competition for the Works Cop, or Inch Trophy, was wan by Hack On,

an Irish horse.

The Lie show was over. Irish horse lovers had had their day. I boarded my plane and came home. At the New York International Airport there was nothing to remied me of the week's glamour.

"Two bad," I thought. "Americans really should know more about the Dublin Horse

Show."

The customs inspector greeted me: "How bug were you alread?"

"Unly three weeks—at the Dublin Horse Show," I took him.

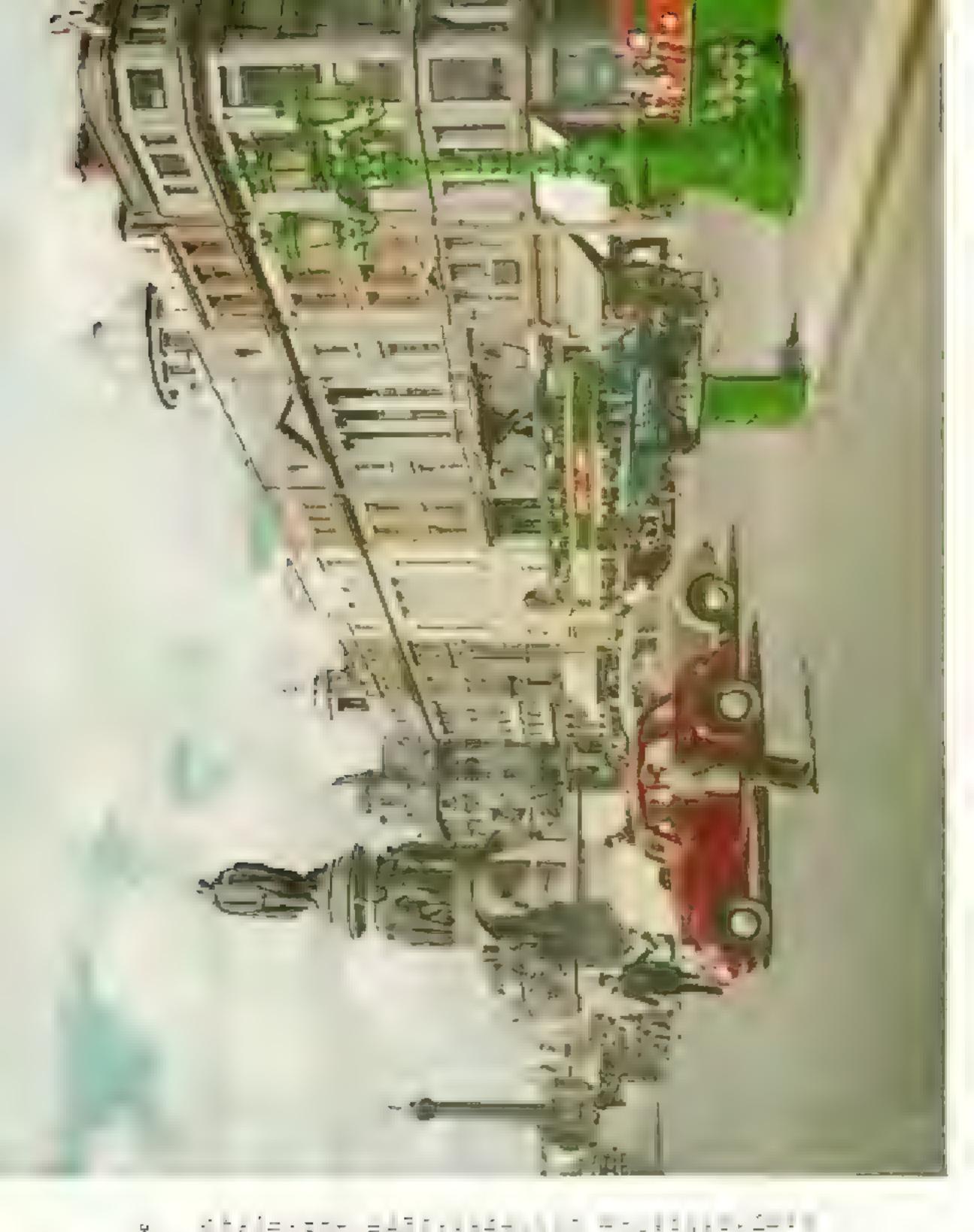
"What a vacation! How did Forhunger look?"



Pride of the Irish: Iris hellett und Rusty, Her Phycor-old Jumper

A r S in a land's forgettest horsewormen. She and Rasty have won many troubles in international luminess.

The state of the land's Pronous Elevabeth Cap in 1949 and 1971 and Dablin's World Cup in 1948.



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Jumping Teams of Four Nations Pass in Review at the Dublin Horse Show

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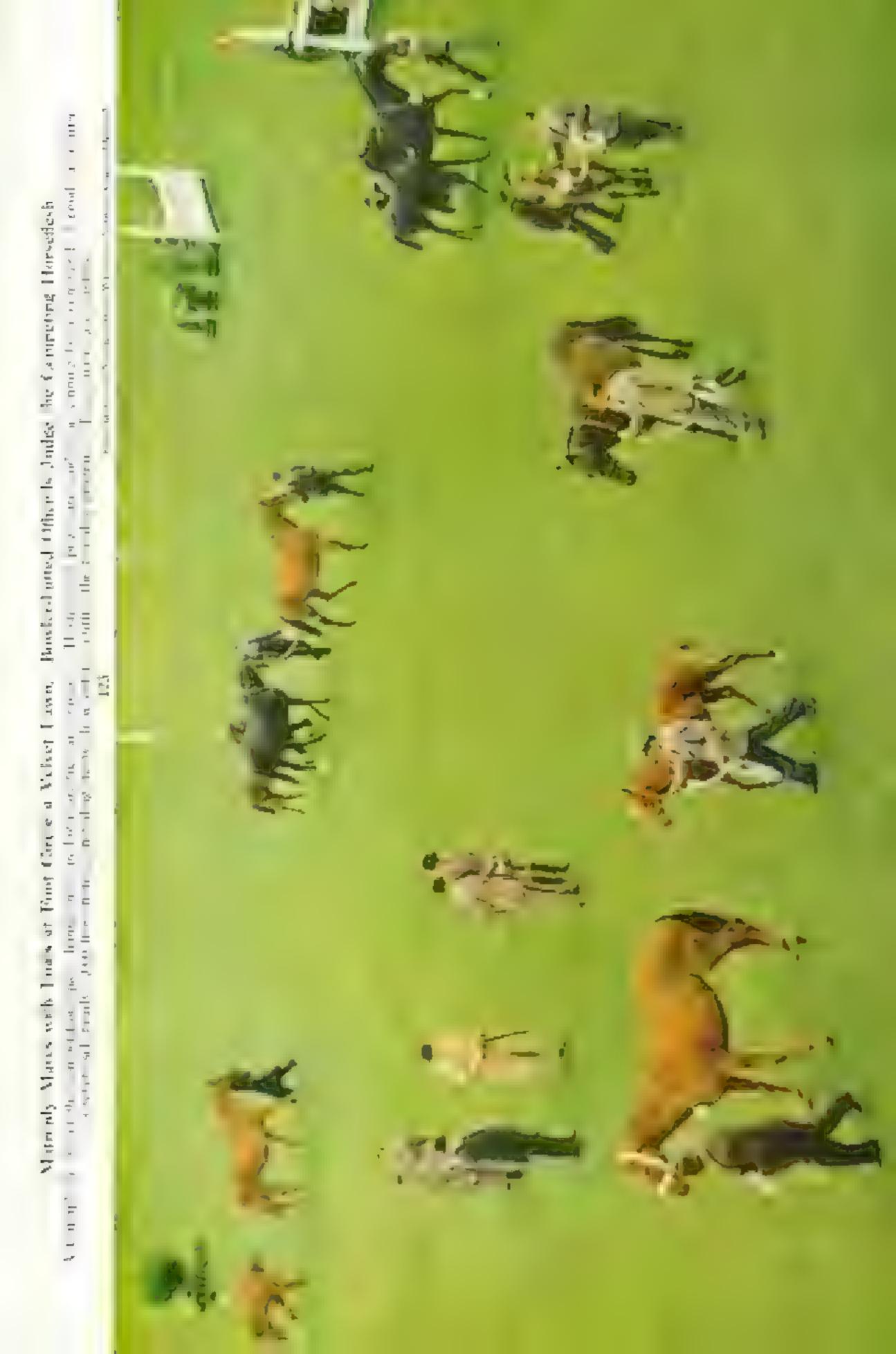
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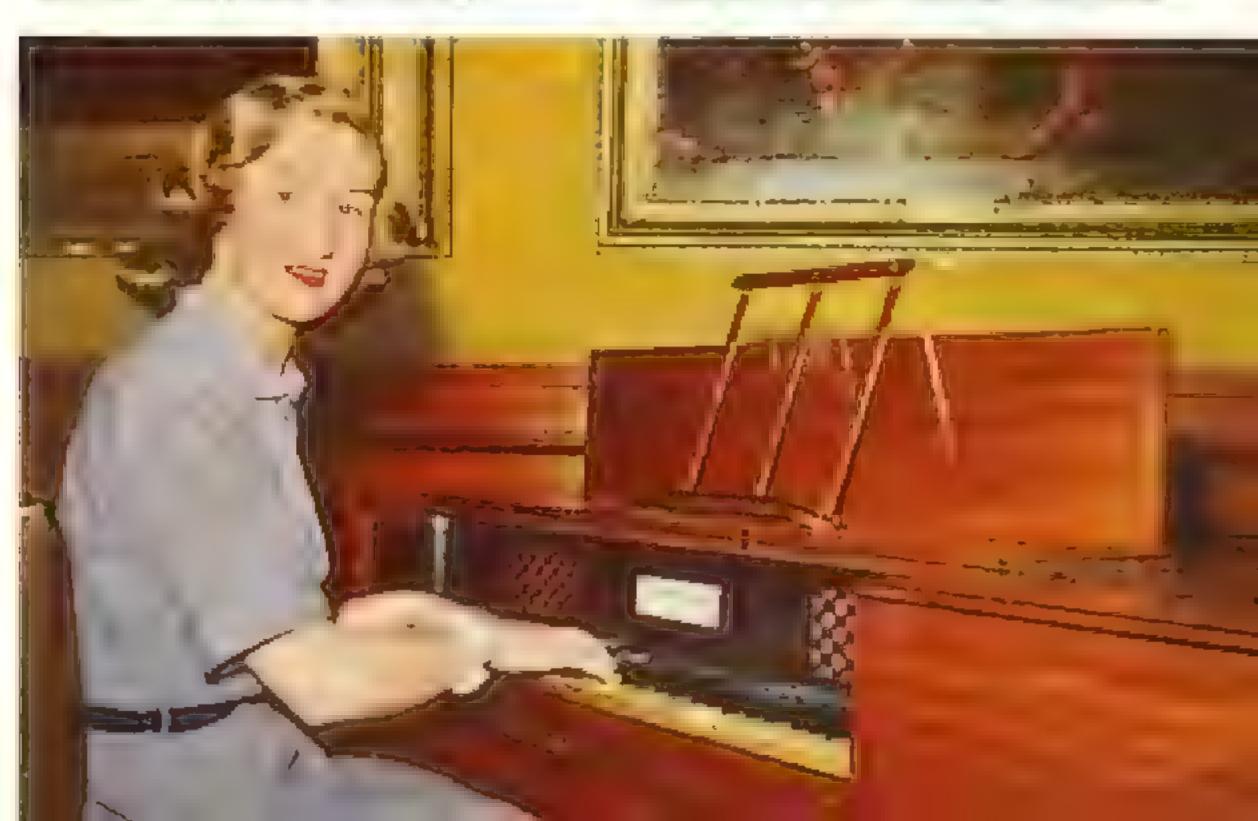
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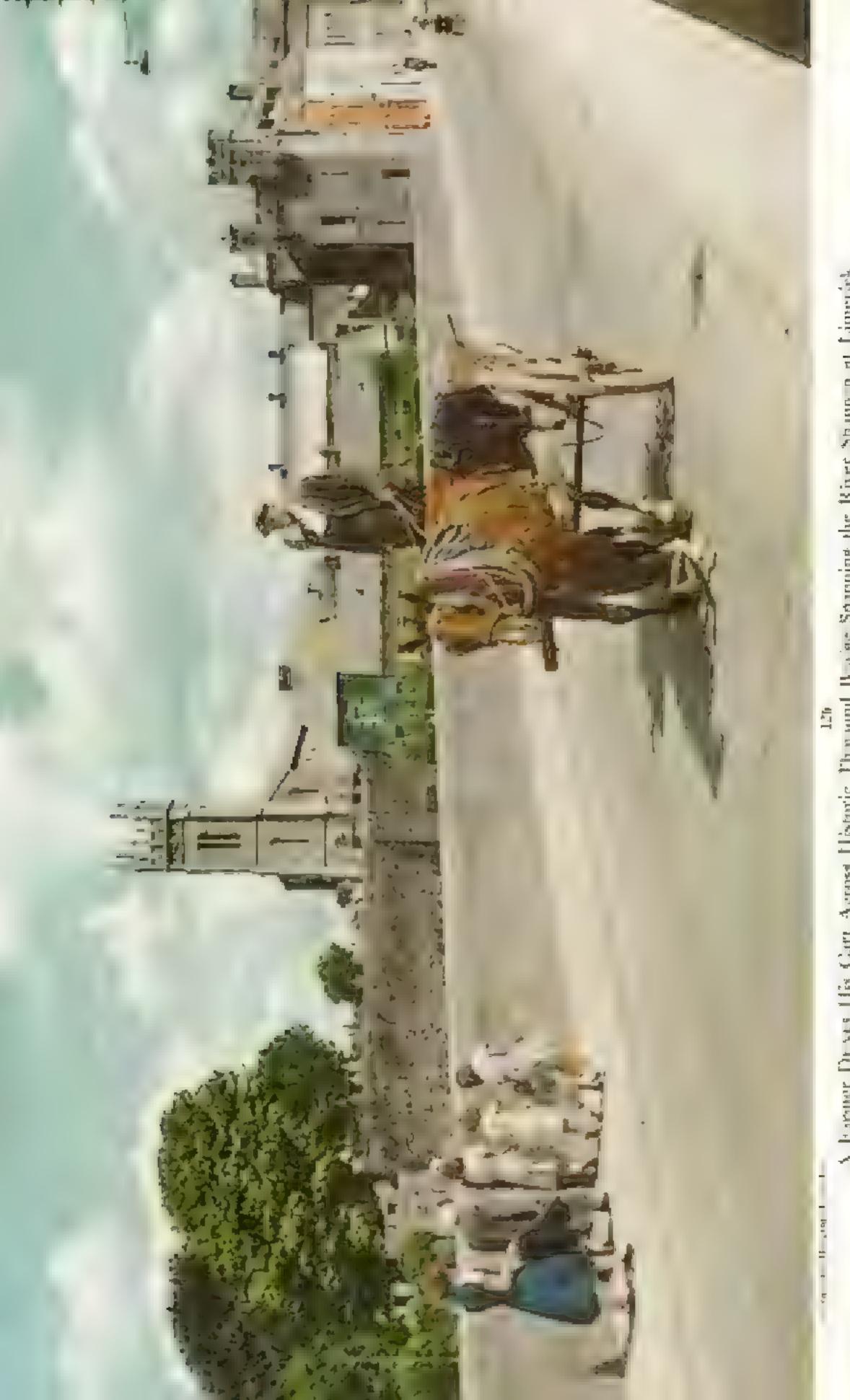
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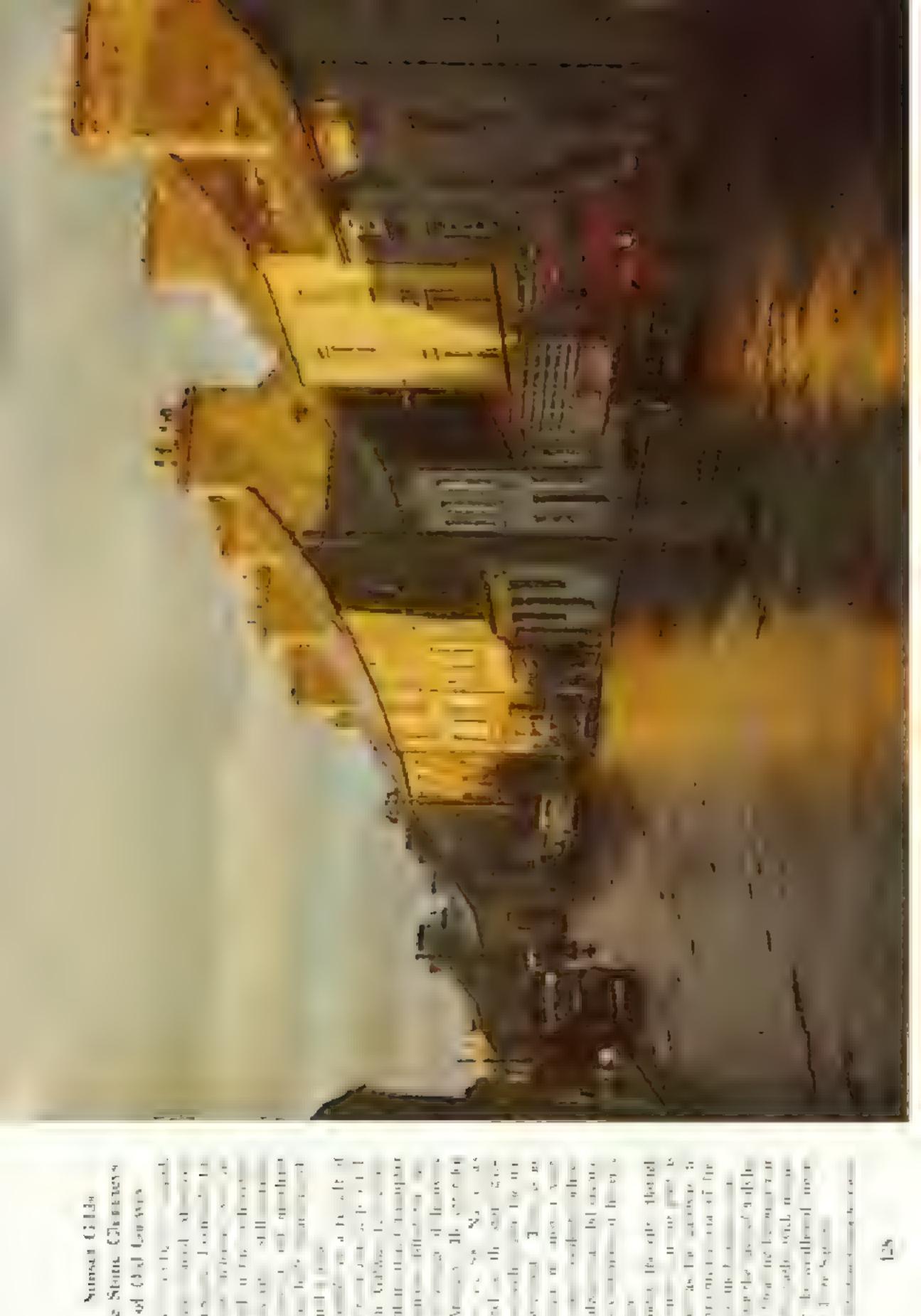


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North America's Much Misunderstood Insect, the Periodical Cicada, Lineages Vite 17 Years of the hasth for a Flong in the Sun

#### BY KENNEIH F. WIAVER

National Geographic Magazine Staff

In May, a mysterious signal crossed the land. Citizens going about their climes beard to sound and felt no agmenters sion. But an invading host, waiting underground, heard and acted.

At a multitude of spots between the Atlantic Ocean and the Mesoscopi Rover the it vaders began rising by night from their hiding places, fanting out to take possession of forest, word lot and orchard. Stretted citizens, facing millions of uninvited visitors, were roused by curiosity and places.

#### A "W" Marks the Coat of Arras

The wholland occupants were to itoms of black with counce tona, and shiny cloaks enable, zoned with the letter W. Their green letters and cleaming red eyes stared unblukingly at passers by. Discarded armor bung from every tree and fence post. From days to dusk drammers filled the air with a barsh and meanful day.

land? No, these creatures are as American as askerball or buildle nickets. They are the periodical acadas, known to almost everybody but entomologists as 17-year locusts.

In June these same cleades were at their prime in many places east of the Mississippi, enjoying a brief and poley iling in the sunshine after 17 winters of subtrerances darkings. The apprehension that recently met their apprehension that recently met their apprehensions given way to varying negrees of annoyance.

By the middle of July the periodical cicada and his keening cry will be only a memory. Then the very air would hang in limp relief were it not for the deg-dry creada, or howest fly, whose tasp makes a tower the late strumer afternoons. But a market drying corpses and empty shelp will continue to remind us of the strumer's visitation thase 142).

#### Life Cycle Began in 1936

When this summer's crop of periodical cicadas began its life cycle 17 years ago, the United States was recovering from depression, Edward of Windsor was sitting on England's throne, and Hitler was gaining strength in Germany. If anyone mentioned war, he likely meant the civil war in Spa.n.

That was 1936. In that July and August tiny antlike creatures wriggled from nests in

furrowed twigs. They scampered briefly on book and leaves, then tumbled to earth. There they quickly burrowest into the protective soil, to be seen no more until 1953

A foot or so below the surface (some have been reputed to dig (O feet) the kicadas hal lowed out they chay cells. There they sank beaks into temler mets and settled down in quiet darkness for almost their entate lives.

Seasons passed. Depression could not spread around the globe. Wood lots feel to the humberman's ax. Towns appeared; cities grew. But the hidlen cicuda was of hydrosto all these things, except as the death of woods or orchard destroyed the nourislung roots on which he sucked. He seldom moved except to shed his clothes and emorge his chamber as increasing size demanded.

#### Out of the Burrows, into the Sky I

Itut as last winter drew to nich se, the solitary earth dwellers sensed that an important change was the. During late winter and early spring they gradually turneled apward anti-their excavations touched the surface. Some, caught, in leaf-covered or wet areas, built mud turrets above the ground as temporary shelters—exactly why, nobody knows. There they awaited Nature's mysterious amountement that sends them scarrying about by the nullions to take part in the swift cycle of courtellin, propagation, and death,

What strange telepathy must govern these strail creatures! Each imbaidual is redated nearly 17 years; yet he senses instinctively and simultaneously with his fellows that his bresurrection day! has arrive!. A few come out ahead of time, others straggle, but the hig energence in any locality takes place enurses on several consecutive nights.

In some areas the ground may be perpeted with hulf-inch holes, as many as 40 000 under a large tree (page 136). Small wonder if some awakening sleepers feel that an invading bost has taken over during the night.

Inity years ago the New York Tower reported that no one had ever seen a periodical
cicada hymph emerging; many writers have
repeated the assertion. It is true that the
creatures scuttle warily from their tunnels,
asually under cover of darkness. Yet in more
recent years observers with powerful lights
and considerable patience have watched the
fantastic emergence (page 137)



#### Johnston the Claus Serve Rip Van Winkle While I'mourge mind

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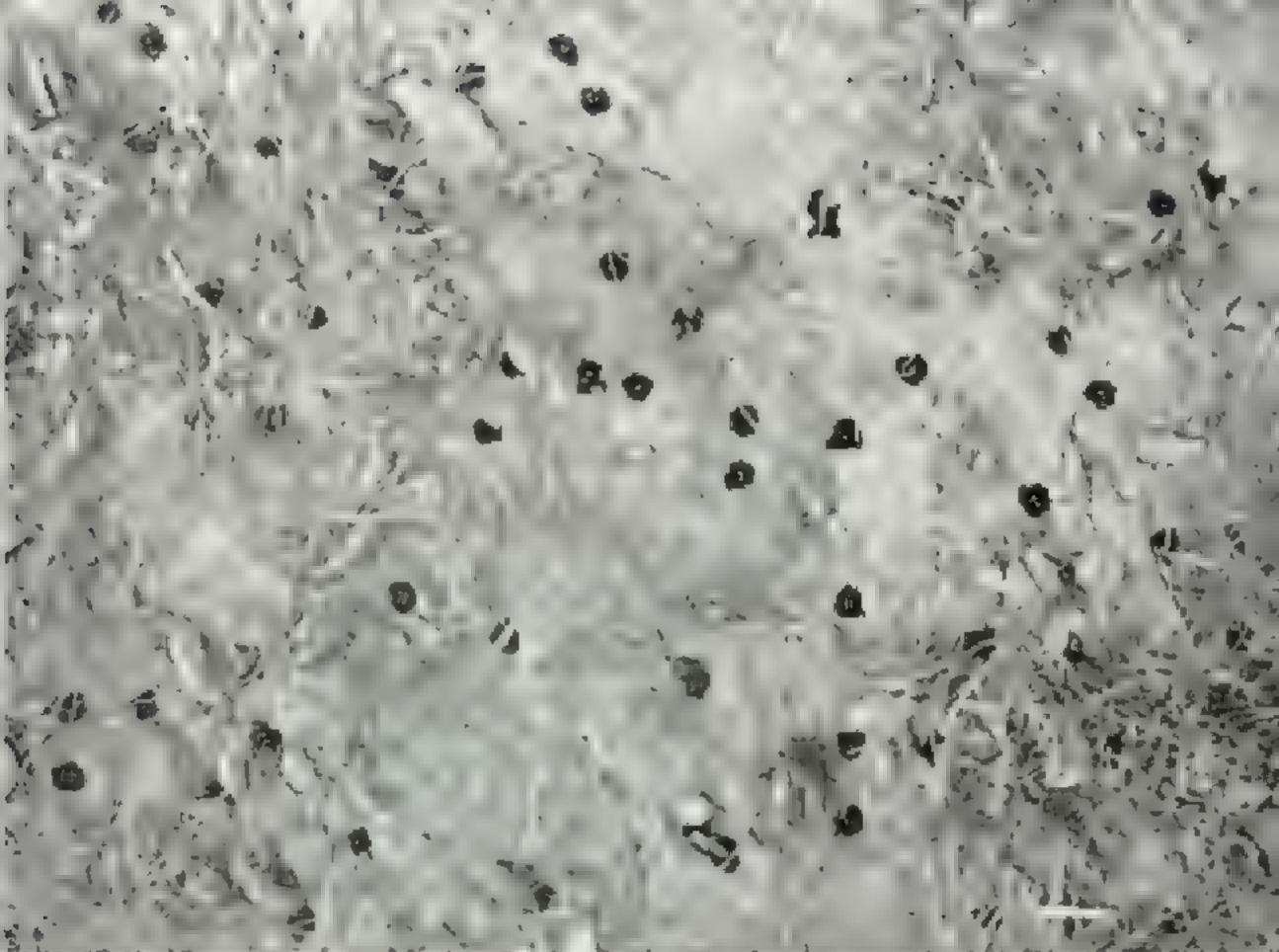




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#### Emerging Cleada Nymphs Pepper the Parth with Hill-inch Holes

Periodical cicadas spatial must of their lives a foot or so below grouped. In their 17th spring they tunnel, appeared, a opposed fact has a the surface. Occasionally when the ground is need or real-covered, they build mad turnes. There they exact Mayinme's mysterious cale. Upon emerging, they honeycomb the earth wath earl bures, as many as 84 to the separate foot. Heavily infested areas may contain a mallion cicarios per nere,

In this stage the cicuda, like the shedding skeleton is soft and flabby, and his thick wing aulis have no power of flight (page 138).

But this condition changes overnight. Ali ist je und wordt die wing soor expand into a his in a prend of fragile thinness (page fine controlled the second control then to glossy brownish black as the outer shell hardens. Orange ted suffuses the musglas and veins of each mica-shing were while a dark Wishows appeared a ranget p

By norming a new insect filts high in the treetops. Most of the time you hear rather than see him, this bumblehee-size creature with the Gery-red head lamps.

#### Pilgrim Fothers Called Them "Locusts"

An entomologist shudders when he hears the cirada called a locust. Yet the misnomer is easy to understand. It goes back to 1034. when Cape Cod I' Igrims took fright at the emergence of vast swarms. Indians knew the cleades; they reasted and are them, although they regarded the sudden appearance as an owen of pestilence,

But to the Pilgrims the insects were an crub, is completely defenseless. His outer cerie phenomeron. They concluded that the vast and noisy ferest company must be locusts, the ancient plague of Egypt. Their Illusion was beightened by the fact that the insect seemed to call, "Pha-a-a-a-a-a-taoh!"

> I went to Louise M. Russell, the United States Department of Agriculture's authority on creadast for clar fication of the creadalocust confusion (page 140).

> Locusts and excadas have little in common, although some people may think they look slike," Miss Russell told me. "The boust, a member of the order Orthoptera, is a migratory grasshopper. He has strong Jaws which can strip regetation to the roots, and he is well known for his incalculable damage in the Middle East and Africa He often migrates in wast swarms for hundreds of miles,\*

> ' Cicadas belong to the order Hemipters, insects whose mouth parts are developed for piercing and suckless wither than for chewing. They live on sap from trees and shrubs and

> \* See "Report from the Lucust Wars," by Tony and Dickey Chappens National Geometric Manager, April, 3953.

are related to other such is aphils, scales, and leaf hoppers. Creadus do not migrate; each dies within a few hundred yards of in barrow.

#### Few Insects Live As Long

Not only does the ritalla lusist on the right to his own name, but he lays of stee to certain distinctions. For an insect, he has a staggering life span

Man has estalogued more than two-thir: a million insect species. Most live a year or less Many exist only a 15% can see these

Metauselah. As l'Astin name implies l'astin name. These creatures held virtually the longest record known for insect longevity. (Some scientists believe the family Cinadidae may include a longer lived variety.)

Cicadas, periodical and otherwise, are notable as the loadest insects, and their standapparatus is one of Nature's most complicated

Only males possess this equipment, a fact which led the ancient Greek Menarchus to quip about the European variety:

Happy are meadle' live, For they all have silent wive

No one who has heard the periodical cicada in full thorax will forget the sum!. The woods ring as if a hundred bazz saws were ripping through oak knats—a shrill the role the listener unnerved and melancholy. A dwarf form of the meet makes a different sound, I ke the hissing of escaping steam.

Some insects sound their call by stroking tiel ke sections of legs or wings. But the list is a drammer. On his abdomen, behind the back legs, each male corresponds two corrugated memorances which tareless muscles vibrate rapidly (page 135). Sounding boards below the drums reflect and amplify the sound. These can be purified to produce a ventriloquistic effect, so that a shriding escada



A Normali Recommenders Before Entering on Unit endly World

almost at one's elbow may sound as if he were vanis aw:

R. E. Snodgrass, one of the world's foremost insect maximists, drew on his extensive research to describe the rigada's music for me

#### Insect Orchestra Tunes Lip

"The periodical cleads utters at least four different sounds, all characterized by a sharp barr. None resembles the screech so commonly heard from the dog-day etcads. One effect is a prolonged barring, with individual notes becoming lost in the ham of the multitude.

"An other sound is the so-called 'Pharaoh note, which, with imagination's aid, sounds like the ancient rulers' title, sustained for a continue seconds on the first syllable and dropping abruptly on the last. It is repeated indefinitely at intervals of two to five seconds

"A third note is a soft, one so table put; often heard from the insect sitting low in the bushes. The remaining note is a loud, rough buer atteced as a squawk of surprise or fright.

Is the cicada's dramming a mating tall: Scientists don't know. For years they said









the action of the react resently they have found ears on her belts. But the parameter the cleaned driving requires a mystery

Where cital is abound, the racket may make day time boars uncomfortable. Reports tell a boars uncomfortable. Reports tell a board being dismissed because coungsters until but study; of travelers who, upon enter the rate of a case to specify it is care to a character with a care to a case of a case of a care of a ca

that while one town may be alone with the tear-by commutally may be virtually

#### 17 Broods-One for Each Year

Periodical cleades appear so us not in the United States every year to a hors presentably are 17 broads of the 17 cer of each munbered in the order of its appearance Some are small and scattered. Broad XI, due text year, has been recorded this by to the Connectical River Valley, and it has been much reduced as numbers, possibly to the point of extraction

This year's crop, Brook X. the latest and most wides the Remark tree. Its how it appearing from Vermont to eastern seal and to the Mrs. topic with an additional small colony to be Nelversky border.

the wood emerces must thinkly in three well is ted and a grown is helical and District the New Jersey ease. Providence and Marylands and a third carrier the southern Appalachians in acrthera Georgia, Tennessee, and North Carolina.

We know by containing backward that be set XIV is the one seen by the Cupe Cod set or a 1034, it next appears in 1957

Brood IV, the most westerly go ap, concentrates around the Kansas-Missouri-Louis under region

Incorrectedly, there are 13 broads of the 15-cour clearus, one for each year, but only two are of notal le size. This race appears chiefly in the Deep South, especially in the Mr. of Valley.

Reads show the broods, whether 17- or 15 for a pressure only in the United States of the first its eastern half. Thus the passer is a North American insect—as American institution, if you will although its steadily weakening numbers foretell a possible fate like that of another American, the passenger pigeon.

on alas made a week or ten days a teremergling. Within a few days the female I gins to her exes beneath the soft back of twices or plant stems

She prefers decilions that's and rarely attacks conifers. Oak, havery, apple, and peach are favorites



#### Wriged Creads Springs Weatt take from a Deah Hass

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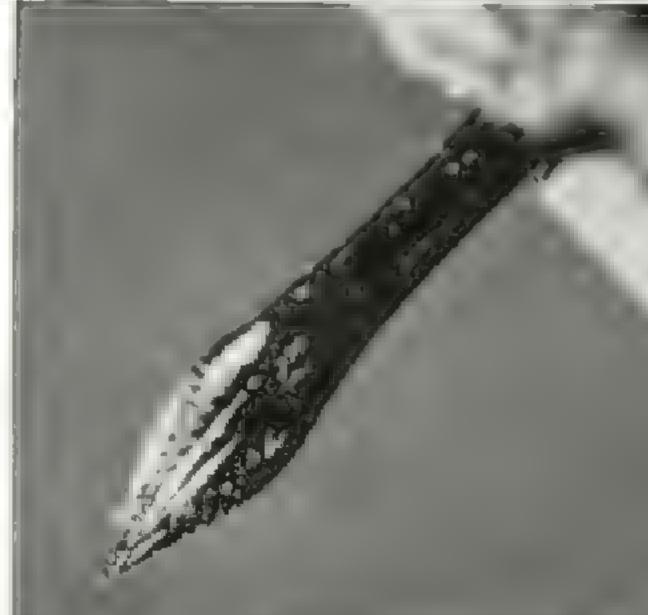
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#### As the Woods Vanish, So Do Cicadas,

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by A min H ( ... No ... to Geographic Mana ... July, 12

### Current Scientific Projects of the National Geographic Society

IN major scientific undertakings, which make from mapping the distant reaches of the universe to exploring the leation of the sea, are being carried out by the National Geographic Society and cooperating institutions during 1953.

The projects are: the National Geographic Society Palomar Observatory Sky Survey: The Society-Cutypso Starine Archeological Expedition; development of an 'Aquasaspe' for coastal underwater photography; The Society Smithsonian Institution 12th Archeological Expedition to Maddie America; a continuing investigation into the lives of ocean fish conducted with the University of Minut, Coral Gables, Florida: and The Society-Bartol Research Foundation Cosmic Ray Expedition to India.

A long-range undertaking now about half finished, the Sky Strivey will prove of inestimable help to astronomers the world over, providing them with a comprehensive atlas of approx mately three-fourths of the heavens. The Survey photographs heavenly homes to a distance of more than 600,000,000 light-years from the earth

#### Sky Survey Finds New Worlds

Already places made with the remarkable 48-inch "Fig Schmiot" telescripe at California justifute of Technology's Palouna Observatory have disclosed thousands of heretofore unknown galaxies, west "islands" of stars and gas in outer space.

Or. Walter Hause, distinguished Palomar astronomer, proved in a revolutionary discovery earlier this year that the most distintivishly galaxies are two billion light-years away, rather than one billion as previously behaved. The discovery expands the volume of the observable universe eight times and places its age at four billion years rather than two bithon.

When completed, the Sky Survey's relestful atlas will provide about 1,700 photographs of that part of the universe visible from l'alomar Mountain. Each sky area is photographed with two plutes, one sensitive to blue light, the other to red, so that details not captured by one will be shown on the other.

One of the most important archeological discoveries of recent years has been made by the National Geographic Society-Calypia Matine Archeological Expedition, headed by Commundant Jacques-Yves Cousteau of the French Navy. On the bottom of the Medl tetrateau off the southern coast of France expedition divers a scovered the naiest known cargo ship in the world, a Greco-Roman vessel that sank in the third century a. c.

#### Exploring Underson by Television

Commandant Constead plans to raise the ship so preheologists can examine it is detail to the meantime they watch television pictures flashed from a special camera explicing the galaxy and its cargo of uncient were and oil jars 120 feet under water.

"We are seeing the galley at ease in the cabin of Calvysa, our workship, with now and then a thought of pity for the frozen divers beans" reports the Commandant.

For several years the National Geographic society and the Marine Laboratory of the University of Miami, Florida, have cooperate to a a study of plankton, the minute life that abounds in all the world's seas. Recently plankton nets in the Gulf Stream have trapped numerous lurvae of important deep-sea fish

Little is known of the lives of these creatures from the latval to adult stages, and a new long-tange study of their entire existence has been started. Results of this National Geographic spansored research may someday help increase man's food supply from the sea.

Tish in the waters of Chesapeake Bay recently saw a strange object lowered to the bay floor. It was the National Geographic society s "Aquascope," a unique 2,700-pound steel to k with a while plastic windless. Inside were two men, a oblogist observer and a staff cameraman; outside was equipment to provide builtiant light for high speed photography.

#### Aquascope Photograp is Marine Home Late

Lowered in 30 to 50 feet of water, the rectangular Aquascope rests on the bottom as if it were part of the underwater scenery Marine Lie takes its normal course, allowing the photographer, lying proce in the tank, to take pictures of fish undisturbed in their natural setting. The Aquascope was designed and built by Gillert C. Klinkel of Randalls town, Maryland, a noted marine biologist.

Or. Hazald E. Edgerton, inventor of the electronic flashlight for ultra-high-speed photography, has worked with al. three underwater projects on the lighting problems of



### Mediterranean Depths Give Up Ancient Greek Wine Jury

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### Hunting Processor in Panama

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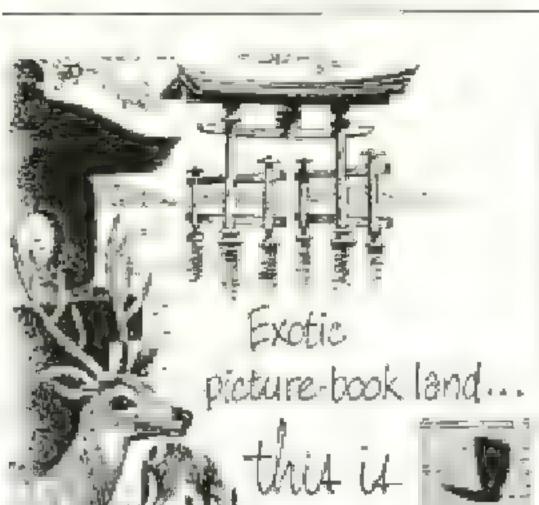


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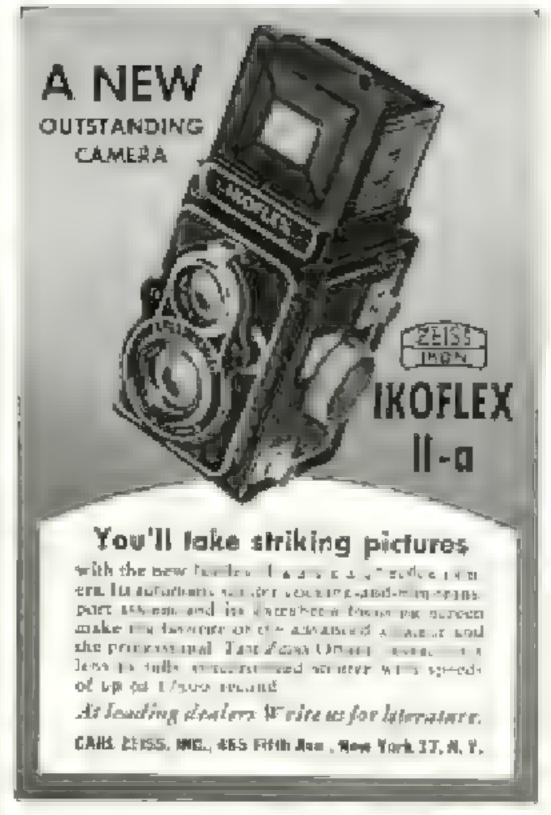
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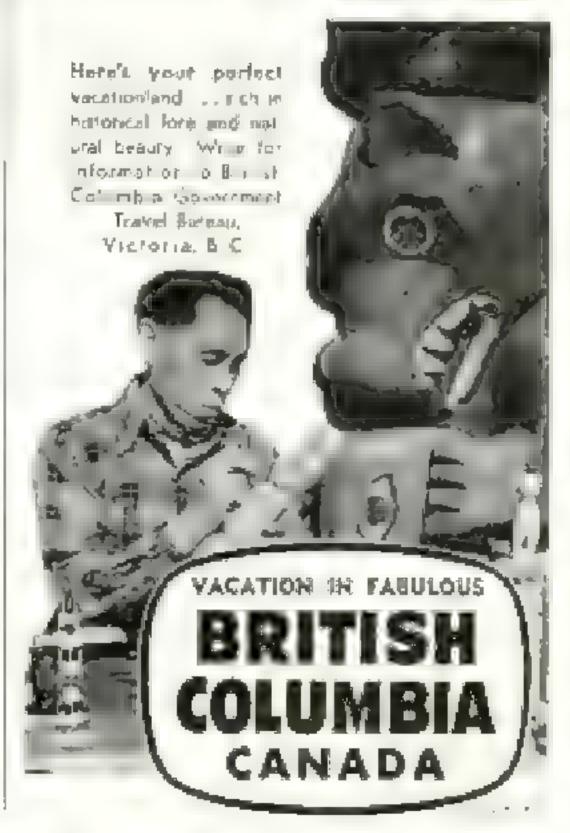
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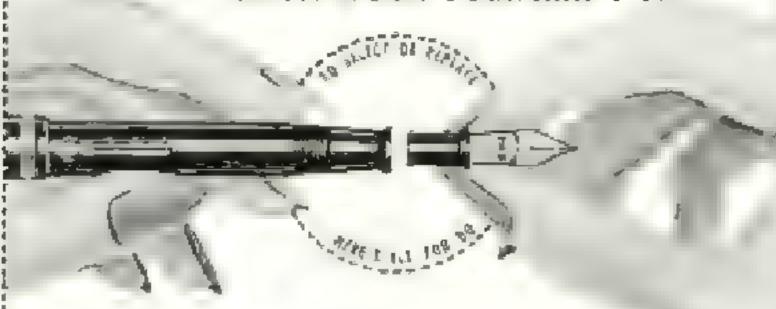
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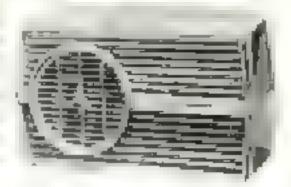
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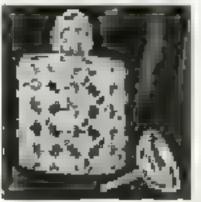
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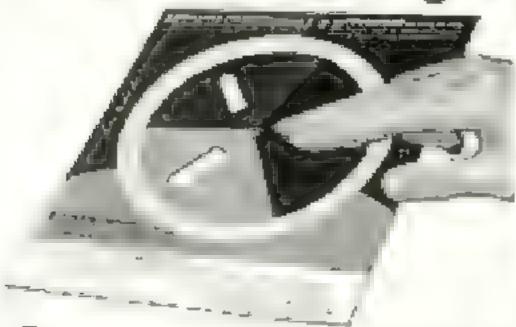


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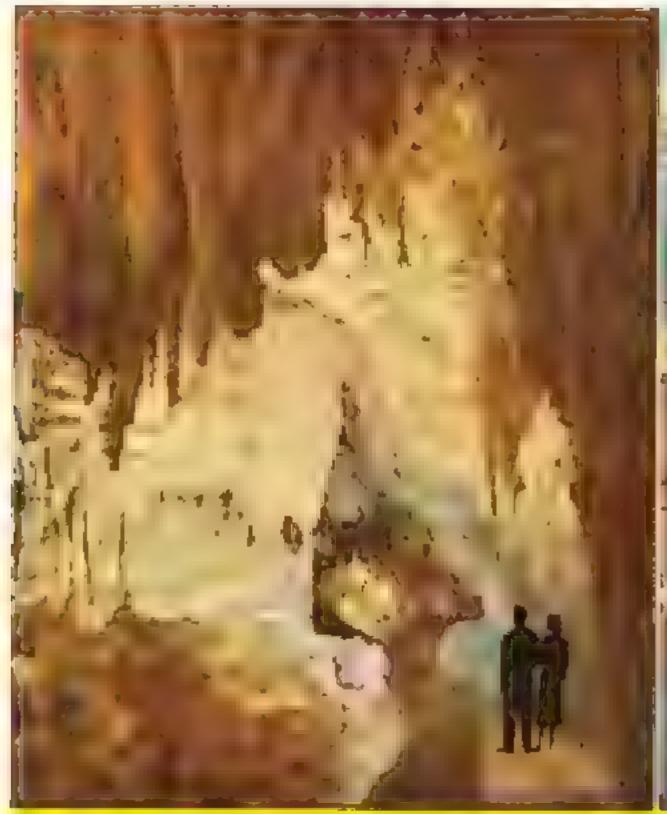
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- "What did they leve or " said Abec.
- "They fixed on treacle, " said the Dormouse.
- "They exalibr't have done that, you know?"

  Anse remarked gently, "they'd have been it.

# Alice had the right idea about nutrition

An in a fact no one could live on breade translewes to one, or any other single food. Indeed, also had the right idea about good nations.

Even today, enfounded craims are made about the "numer powers" of particular foods. Such claims should be denogaided. An itemites have proved the good hearth depends largely on eating a wake twitter of property of own and property prepared foods. These in, one meat, eggs, in 6, finite, seggitables, entread and was e-grain and a largely entre.

How much and what kinds of toods you should can to that to the facility and desirable weight depends on your area, your priyonal cound than and the sind to work you do. An order person, for example, what most physically active needs less of the foods that product energy. He should have generous amounts of the foods that a transit protects, a termina, and minerals essential to the appears and repair of the body.

To proceed at well be anicol, will supply these and other necessary changuts with props, amount as Prote u, for example, is neceled to heald and repear the testics of the body. The solutions are immended to necessary because they affect or took part in thatly cheffinal processes in the body. Phoenis,

votate us and manerals pare found in many foods. Groud its and on depends upon eating a survey of such foods.

There is more to good enting habits, however, than simply taken you eat. So, to bely you get a full bene it from your food, here are some suggestions that you may follow:

Have your me its at regular bours.

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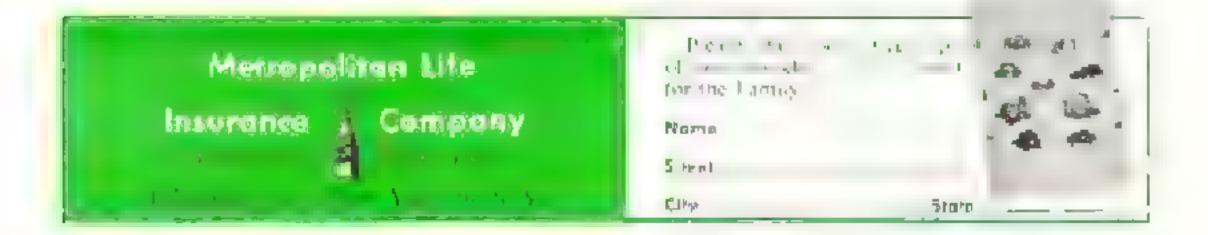
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See the distant if you have frequent digistive

Have dental exfects reprised promptly

hal no your ductor's suggestions about reducing there.

The manifester banction of your food is to provide your body with the energy you need for duly activities. Metropolitan's free booklet, "Food signific fromby," discusses the essential not more elements, it is who you need them and what foods supply their. By foods surgensible rules about diet you may have longer the and greater ability to enjoy





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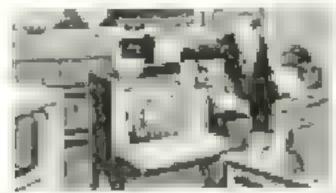


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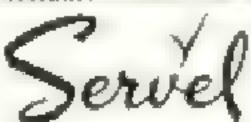
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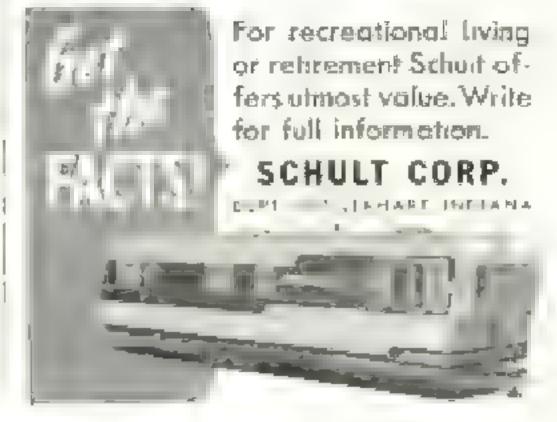
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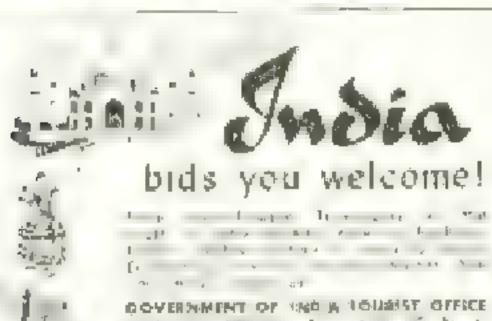
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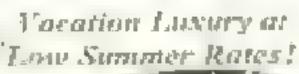




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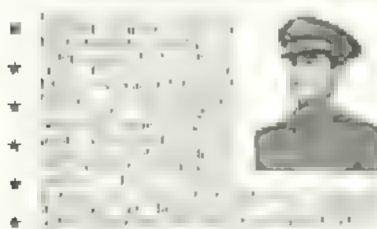
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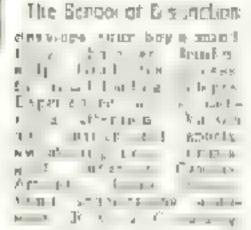
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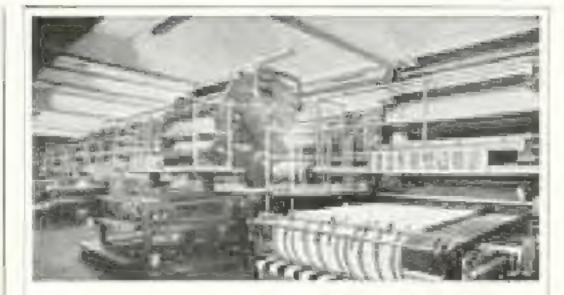


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