# EARLY ENGLISH RAILWAYS.

First Important Road-

Heavy Cuts and Embankments, Two Tunnels, Massive Viaducts, and Sixty-three Bridges in Thirty-one Miles-Yet the Liverpool and Manchester Road Paid from the First.

The recent trip of the little "John Bull" engine and its primitive train to Chicago has given many young Americans an idea of what railroading was in this country in its early days. In England, in France, and inthe to United States the railway era began at practically the same time, this country being at the outset decidedly in the van of the procession with its great distances to be covered and the comparative scarcity of money. In all these countries the need of regular and rapid communication was felt, and the development of the locomotive engine made it possible in them all at substantially the same time.

The Manchester and Liverpool Railway was the first steam railroad in England really worthy of the name. It was opened in 1830, and, considering the experimental be counted one of the railroad wonders of short tramways in England, principally in the coal regions, operated with horses or operated with locomotives were already in amusements of the nursery." existence-the Stockton and Darlington, opened in 1825, and the Monklands, in Scotland, opened in 1826; but they were both on a small scale, both were experimental, and neither depended entirely upon locomotives for power. Indeed, when the Maneither by horses or with cables operated by 200 barrels of flour, 34 sacks of malt, 63 stationary engines; the use of locomotives bags of oatmeal, and 135 bags and bales of ent. was an afterthought.

vide the best possible communication be- speed attained on a level was twelve to tween Liverpool and Manchester-one the fourteen miles an hour, and the journey great seaport of England, the other the great manufacturing town. Although the cluding three stops of five minutes each. population of Liverpool was then only about 125,000 the port was receiving every year nearly 500,000 bags of American cotton | accomplished by any locomotive power." all of which had to be hauled or floated to the Manchester mills for manufacture. The freight traffic between the two cities was about 1,000 tons daily, and communication was so slow that the mills were often delayed, to the great loss of both propriefrom the beginning that a railroad between the two points would be profitable, and the trip. company had no difficulty in selling its shares. The distance was only thirty-one miles, and the company began with a capi- the practical railroad man will ask, "did it act places she is accustomed to see them at tal of \$2,000,000, in shares of 500 each.

capital, there were still many difficulties to be encountered. The landed proprietors objected to having this newfangled iron road run over their estates, and they made | 74,000 less than it carried in the first half such a strong fight in Parliament that the charter was not granted until 1826. In June of that year work was begun under interest and all other charges), £48,218, the direction of George Stephenson. Stephenson was perfecting his locomotive months. In its first two years and a quarter engines, and he gave the idea of a real the road made a net profit of £145,509. steam railway between the two cities. The \$5,000,000.

At was determined that grades and curves would be too dangerous for the tremendous speed attained by steam wagons, sometimes alfmost fifteen miles an hour, and that the road must, as far as practicable, be straight and level. The carrying out of this idea made the new road such a work as a young roads, of course, were not built. company in this country, even at this time, would hardly undertake. The nature of the country made it a very difficult task. Tunnels had to be made, bridges built, and the great Chat Moss, a swamp four miles wide, and so soft that cattle could not cross it, had to be drained and levelled in the centre and embanked at each end. The soft mud here was from 10 to 35 feet deep. In the thirty one miles, sixty-three bridges were necessary, and twenty-two of these were built of brick, eleven of brick and stone, eleven of wood and two of wood and stone. Two great tunnels were cut, and the substantial character of the work upon these is shown in illustrations. Both

were lighted throughout with gas. pen his eyes. Besides its sixty-three ridges, two long tunnels cut through rock, or mounding over almost the entire line, crossing at grade had everywhere to be entered Liverpool was a mile and a half long. Midway between Liverpool and Manchester the valley of the Sankey was crossed by a great viaduct supported on nine arches, each arch of 50 feet span, and from 50 to 70 feet high. The roadbed was hardly inferior to the best in present use. long and weighing 35 pounds to the yard. Some of the sleepers were of wood, some of stone. The stone ones contained four cubic feet each, and were used over eighteen miles of the line. The wooden ties were of oak or larch, and were used principally on the embankments. The roadbed itself consisted of a layer of broken rock and sand two feet thick, one foot being below the ties, the other foot between them. The ties were laid at intervals of deep and an inch in diameter being bored, with oak plugs driven into the holes. The rails were supported every three feet on cast-iron chairs, and the chairs spiked to the plugs. With the exception of two inclined planes at Rainhill, where the grade was 1 in 96, there was no greater grade on the whole line than 1 in 880; and no curve exceeded a deviation of 4 inches in 22 yards. This first of England's great railroads was as straight and as leval as any road that has yet been built; and its lines would drive a modern constructor to despair.

On the 15th of September, 1830, the railand cars for it, and on that day eight enger coaches, carried about 600 distinguished guests ever the line. The preparations for his eventhad created the first railroad furor that the royal family to take part in the celebra-

tion, but without avail. descriptions of this opyging trip. "Prepa- discoverers.

rations," one of them said, "were made on a scale of great magnificence to render this a ceremoney of no ordinary kind, and some Ever Grades and Light Curves of the of the most distinguished characters were invited and attended. The Northumbrian, a steam engine of fourteen horse power, took the lead, having in it; train three carriages. The performance of the engines was extremely satisfactory until they reached Parkfield, seventeen miles from Liverpool, when they were stopped to renew the feeders and to take in a fresh supply of fuel. Here several of the company alighted from the different carriages, and on starting | terized the transit of reigning sovereigns in a tatal accident happened to Mr. Huskisson, which after a few hours of extreme agony terminated his life."

On the following day the Northumbrian left Liverpool with 130 passengers, and arrived at Manchester in one hour and fifty minutes. In the evening it returned with twenty-one passengers and three tons | The outlay necessitated by the visit of one of baggage in one hour and forty-eight monarch to another was enormous, and minutes. On the 17th of September six only rivalled by the cost of his reception at carriages began running regularly between the friendly court. But these occasions the two cities, the time averaging about were few and far between, and it is very two hours. Two months later an engine | doubtful if the less ostentatious, but more with no cars attached ran over the line in frequent journeys of the kings and queens one hour, with a stop of two minutes mid- of the present day do not sum up in the end way to oil the machinery. This tremendous | with a nearly equal figure. feat led an English newspaper to say. "If stage of the business at that time, it must only ten years back it had been said that on the move; the Emperor of Austria passes persons could pass without inconvenience continually to and fro between Vienna and the world. There had long been various and without danger over a distance of Budapest, while his consort travels all over thirty-one miles in one hour, the tale would | the Continent have been treated as one of those visionstationary engines, and at least two roads ary stories which in former days were the

In the first ten weeks of its existence this road carried 70,000 passengers, but it was the first freight trains were started. On locomotive took the first load of freight | San Sebastian, and the Queen of England cotton, the cars and their freight weighing In 1822 a company was formed to pro- eighty tons. On this trip the average was made in 2 hours and 54 minutes, in-"This," says a newspaper of the time, "was the greatest performance heretofore

But this great feat was soon to be outdone. By the 25th of the following February a Samson, was in the field, and a train of thirty loaded "waggons," weighing 1641 tons was drawn from Liverpool to Mantors and operatives. There was no doubt chester in 2 hours and 34 minutes, the engine consuming 1,376 pounds of coke in the

This earliest of all the great English railroads was a marvel in construction; but compartments of her carriages in the expay?" It did, from its first day. In the home. The train always slacks speed as But with what was thought abundant second half of 1832, when it was two years soon as she retires to rest, and it is well old, it carried 86,842 tons of goods and 39,-940 tons of coal, besides 182,823 passengers or discomfort from a long night journey. -and this large number of passengers was of that year. The total receipts for the half year were £80,902; expenses (including leaving a net profit of £32,623 for the six

It was this line that turned the tide of company's capital was then increased to public opinion in England in favor of railroads. Within four or five years the foundations of nearly all the great railways of England were laid. And a great many foundations were laid that were never built upon. By 1846 Parliament had passed 272 acts, authorizing the construction of nearly 5,000 miles of railroads. Most of these

# Gold ih Africa.

about to become easily the greatest source of the sovereign, even if he travels incogof the world's current gold supply. Many nito, notifies the respective companies of good authorities think that the Transvaal the line of route. The companies in their region alone will lead either America or turn give instructions to their staffs of the Australia in 1893, and it is believed that hours of arrival and departure of the train, not less than a billion dollars' worth of gold and they agree with each other as to the discovered. The wonderfully rich but satisfactorily settled a plan is drawn up limited area of which these estimates take | with the minutest particulars of time and account does not by any means, however, sent to the Government, which forwards a include all of the gold-producing territory copy to the Minister or Ambassador whose in South-eastern Africa. The latest reports | sovereign is about to pass over the territory. Next the Seely, the single piece of silk or plained and smiled at my inexperience. I from the prospectors at work in Mashona- | When the moment arrives the chief engiland, a region fully 600 miles northeast of neer of the company, and frequently the di-The whole construction of this road is the Witwatersrandt field in the Transvaal rector, is at the station to receive it; the rough to make a modern railroad man Republic, agree in regard to the extraordin- engineer of the line enters a carriage, and ary extent and productiveness of the the first mechanician of the road boards the gold deposits known for some years to ex. engine. The whole extent of the line has sour miles of swamp filled, and excavating ist in that part of Africa. British com- been previously carefully examined so as to panies are preparing to undertake the de- guard against delays and accidents. velopment of the Mashonaland fields on a Queen Victoria travels with less state avoided. The tunnel by which the road large scale, and as the region is not very than any other crowned head, with the exremote from the sea, and is inhabited by ception of the Emperor of Austria, who in natives not at all dangerous or difficult to this, as in all else, has a deep-rooted dislike deal with, the now famous Transvaal mines | to pomp and representation. Franz Joseph are likely to have a formidable rival within is only accompanied by his military suite; a short time. Altogether the prospect is if he retires to rest at all, it is on a narrow that South Africa will yield not less than camp bed, but as often as not he spends the \$50,000,000 in gold in 1894, against perhaps night sitting up dressed in a corner of the Wrought iron rails were used, each 15 feet 834,000,000 in America and as much in carriage. Australia. This will mean an increase of | William II. has had a train recently confully 25 per cent in the total annual product structed on the most luxurious scale, and of the world, as compared with 1891, and really seems to be the apogee of railway of about 20 per cent. over last year's coach building. The one which took him yield. Such a gain cannot fail to tell soon | across the St. Gothard to the silver wedding upon the relative value of gold and other of the King of Italy is composed of thirty commodities, including silver, and thus carriages. He intended to pass incognito bring about some measure of the change in through Switzerland; nevertheless, the the purchasing power of money which has authorities did their duty in a minute surbeen so earnestly sought by opponents of vey of the line from Basel to Chiasso, and a the gold standard. Stranger things have whole body of Swiss officials accompanied three feet, in each tie two holes six inches often happened than the solving of the cur- the train as long as it remained on the terrency problems of the day by the gold ritory of the republic. In Italy the miners of hitherto insignificant regions of South Africa.

> The tail of the beaver gave the hint for the trowel of the masor.

Exposition at Chicago, shows by an elabor- to Rome to concert with the Italian police of \$33,000,000 has so far been devoted to the Emperor's stay. the World's Fair by the exposition com- Never before has William II. travelled in pany, the United States Government, the such state, nor has there been such watch-States and foreign governments. This total fulness exercised. The Empress brought way was ready for its first train. It had is exclusive of the expenditures of exhibit with her three maids of honor, three ladies from the house by crossing a court and victims in warfare and keep the heads as cost then \$4,100,000. Stephenson & Co. had ors and of the heavy investments in tempor- in waiting, her Mistress of the Robes, two passing through an alley. The alley usual- ornaments at their girdles. How these for several years been building locomotive ary hotels, side shows, and similar World's Chamberlains, and seven body servants. In has black, slimy water in it. The room heads are preserved is a good deal of a mysgines, drawing twenty-eight small passen- tion which was opened with much pomp on high dignitaries of his court, seven Generals an outlay probably exceeding \$50,000,000, Cabinet, the Minister of Foreign Affairs, ditions, cholera spreads like wildfire. But hollow head is filled with hot pebbles and England ever experienced, and great efforts | 000 inhabitants complete in every part, and | Lucanus, and a large staff of servants. were made to induce the King of some of well supplied with public buildings. Surely A considerable degree of anxiety was felt

### HOW MONARCHS TRAVEL.

Great Preparations for Their Safety and Comtort.

Queen Victoria's Beautiful Railway Carriages-The Gorgeous New Train of the Young German Emperor-Extraordinary Precautions Taken by the Czar-How Other Crowned Heads Go Visiting.

History and tradition tell us of the stately pageants and ceremonies which characthe olden times, and even of the pomp with retinues, the sumptuous equipages, the mounted escort, the interminal train of sumpter mules, and luggage carts laden with every species of travelling paraphernalia.

The Emperor of Germany is perpetually

IN QUEST OF HEALTH and oblivion; the Czar visits the distant provinces of his empire, and regularly goes to Denmark ; the Queen of Sweden resorts to foreign watering places; the King of not until December of the same year that Italy shows himself in all the former capi made no other claims on the companies root, and live on them with the game they tals of his united dominions; the Queen Re- than the assurance that they would convey get. Their staple in game is a species of the 4th of December, 1830, the Planet gent of Spain takes her delicate little son to annual practice to cross over to the Contin- tions were occupied by only a few police-

> With much greater freedom of locomohave about her are disposed in different | ing a brother potentate. known that she never seems to feel fatigue All her heavy luggage, the horses, the apseveral days ahead, so that her apartments

# FOR MILITARY REASONS

the gauge is a trifle broader than elsewhere. Each portion of the line assumes the responsibility of the royal train as long Hardly a doubt remains that Africa is officially informed of the intended journey

BRIDGES AND TUNNELS

were guarded by military detachmennts; an inspection train preceded the royal carriages to clear the way. A force of police and gendarmerie were on duty at every

the Columbian Exposition ought to stand both in Germany and Italy with regard to outrages in Rome and the knowledge that earth.

the Triple Alliance has some desperate and fanatical enemies in Italy.

journeys necessitate the most stringent measures of prudence. Under Alexander II. troops used to be posted at short distances along the line from St. Petersburg to Moscow and from Moscow to the Crimea. The imperial train was divided into two sections, following each other at a few minutes' interval, and it was never known with any certainty into which portion the imperial party had taken their seats. Is was to this precaution that

THE CZAR OWED HIS ESCAPE

which their Ambassadors went on their in the cruel catastrophe which blew up the is nothing else there worth carrying away, missions. We have heard of the long first started train near Moscow when he and the climate is exceedingly hot. As for was in the second. Since the outrage of the people themselves -well, even the In-Borki fresh orders of precaution have been dians of the west and upper Andes shudder given. Where formerly a soldier stood at the name of a Jivaco. Where I travelled every hundred yards now there is one at among them is almost as far from the Pacievery fifty along the endless line of rails fic coast as Nevada is from San Francisco across the immense continent of Russia, across the mountains. That is the country necessitating the movements of a where the Amazon has its source in the with admirable precision and celerity. The Jivaros along the rivers. There are no imperial carriages are "iron clad," and roads nor trails. Nature is so vigorous and within, extremely comfortable, replete with | luxuriant in that hot and moist region that every possible accommodation, bedrooms, trails would be covered with a vegetation imperial party never enters one of these tonishing how splendidly they make canoes of the murderous sectarian.

wise travels by special trains boarded by the | dreds of miles and return with metal spear Chief Engineer. M. Carnot is not at all heads, hatchets and knives. averse to ceremonial state, but N. Grevy him free.

Napoleon III. had saloon cars of extreme chester and Liverpool road was begun it from Liverpool to Manchester. Eighteen never tarries long at Balmoral, Osborne, or elegance and exquisite taste. His train was hog is sport for the Jivaros, Men, women, was intended that the cars should be drawn cars or "waggons," were attached, carrying Windsor, and has of late years made it an preceded by a single engine, and the stamen and a small contingent of soldiery.

Nominally all through Europe the railtion sovereigns are yet bound to observe way companies are supposed to make no certain formalities in their journeys. In | charges for the transit of royal trains, and principle, they travel only by special trains, to undertake at their own cost the extra and have their own imperial or royal car- expenses which it entails; but as a fact riages built and kept up with exceeding they are gainers by the royal journeys, as care and always ready for use at the short- | they receive important gratifications, rich est notice. The railway carriages used by , presents, and not unfrequently distinction the Queen of Great Britain in England and, in the shape of orders or advancement. Scotland are marvels of perfect construc- | Setting apart the actual cost of building tion and arrangement. They are fitted and keeping in repair these magnificent new and more powerful engine, called the with electric light, upholstered, furnished trains the sums disbursed, even on a comand decorated in perfect harmony and paratively short journey, appear fabulous taste. She can write, read, work, converse, and disproportionate, but even those who, take her meals, and sleep almost as easily to flatter the masses, cavil at the waste of and comfortably as in any of her royal money, would be the first to accuse the residences; even her favorite flowers and sovereign of meanness if he attempted to the many family photographs she loves to curtail the expenses when receiving or visit-

#### HOW CHOLERA IS SPREAD IN IND IA. Through Lack of Sanitation and the People's Peculiar Habits.

purtenances of her bedroom, are sent on vail in India for the spread of the cholera lace. The savages move along noiselessly, was told recently by Dr. Pauline Root of like snakes in the grass, and at sight of a are quite ready to receive her on her ar- the Woman's Medical College, Philadelphia, monkey through the foliage they blow a who has lived for eight years in southern tiny poisoned arrow through a pipe at him. She owns private carriages in France, left India. Dr. Root began by describing the Poor Mr. Monkey is hit every time. He is in charge of the Compagnie de l'Ouest and | conditions under which people live in south- | dead in three minutes. If the air be calm despatched to Cherbourg to meet her when ern India in order to show exactly what it is dangerous to be within a hundred yards she leaves the royal yacht; these convey circumstances generate the cholera. There of a Jivaro armed with these miniature her to Biarritz, Grasse, Hyeres, or Italy, is absolutely no sanitation there, as we have weapons, for he can blow a poisoned arrow as the case may be without change. The it. Drainage, with the exception of a fever and kill at that distance. royal trains are built so as to travel on breeder in the way of an open sewer, is un- 'Poison is also used in catching fish. The

use his well. Finally, the jar is refilled and carried home. ber having heard one of them laugh. The quality of the water by the time the "They have no religion. They worship jar is refilled is promising, indeed, when nothing, though they believe in dreams. the clothes are washed. The cattle are cating liquor, they dream of killing their taken there to drink. Dr. Root said that enemies. Their doctors are the actors, in sending a man to the river to fetch water | medicine men, and fakirs of the savages there was never any certainty that he would | along the upper Amazon. Their existence not fill his jar with the water standing in is like the butterfly's, pleasant and sunny one of the pools, instead of digging a fresh at first. Free chicha and conquests in love hole. The very cleanliness of the people, affairs, are among their perquisites. When and they are extremely clean, tends to the anybody is sick the family get a great quanin the river bed for four or five days.

As for facilities in caring for the sick in India, Dr. Root graphically showed how forlornly poor these are by describing her experience in the house of the Vice-President of the municipality of Madua, a wife's condition. Undoubtedly he meant | ment and says so. to do the best he could for the sick woman, day. The woman died of blood poisoning, shortly before he was killed. And this is the way a sick person fared in | "Nearly every museum has one of the Fair preparations. Altogether the exhibi- The Emperor was accompanied by three is seven feet square. In the court are often tery. The skull is removed and skin and found the cow, chickens, and a number of flesh treated with extracts from plants, Monday by President Cleveland represents two Admirals, the head of his private persons. No wonder that, under such con- which contract and tan them. Then the

Geologists consider kerosene to be aniout among other international exhibitions, this visit and the safety of the visitors, an mal oil. Hence what we burn in lamps is The newspapers of the day gave glowing somewhat as Columbus himself does among anxiety not allayed by the recent dynamite the remains of long extinct monsters of the

SAVAGES OF THE UPPER AMAZON.

The Czar, however, is the ruler whose strange Stories of the Jivaros, the Apaches of Ecuador.

O. T. Baron, an enthusiastic scientist of this city, recently returned from Ecuador with a collection of beautiful butterflies, birds, and queer trophies of the natives. It was in pursuit of scientific specimens that he lived for years among the Jivaros, an interesting tribe of savages along the banks of the upper Amazon.

"White men never venture into the wilderness," said he, "except to collect rare orchids or butterflies or birds. There whole army corps; this service works Cordilleras. You will generally find the bathrooms, sitting and smoking saloons, an in a few months. So the natives do the next excellent cuisine and a perfect system of best thing to following paths-they take to heating and ventilation. Nevertheless the the rivers. With all their savagery it is astrains without the secret apprehension that with an old axe carried over the Andes their lives are in jeopardy and at the mercy | from some distant trading post. They don't understand metals. But with the coca bean In the French republic the President like | as an article of merchandise they go hun-

"They cultivate plantain, banana, mango wild hog that lives in the darkest and thickest places of the forest. Hunting this a hog is sighted they give chase and nothing can retard the hunters' progress. They crowd through jungles, squirm through brushwood, all the time keeping pace with their dogs, and going as fast as a white man could in the open. On all other occasions the women remain at work in the houses and plantations."

Mr. Baron has a full dress of a Jivaro warrior, given him by a young doctor doomed to death by his people for allowing three patients to die. The Jivaros run very exclusively to earrings in their costumes. The earrings are suspended from a bit of cane passed through the ear. They consist of four long pendants of beetles' wings of glistening green, gold, and purple, strung so as to form a pretty tassel. The brilliant scarlet and orange feathers of the resplendent tocan are used for fringe. The arrangement of color shows remarkably good taste.

"The women are not so elaborately provided with earrings," says Mr. Baron. "Their sole ornament is a stick passed through the lower lip.

"One of the most interesting things I saw them at was killing monkeys. You see it A plain story of the conditions that pre- takes 5,000 monkey teeth to make a neck-

every European line of rail, with the excep- known. In the villages people live in low Jivaro is not bound by game laws or Fish tion of the Russian and Spanish ones, mud huts, where all the family congregate Commissioners, so he takes large quantities in one room, the dimensions of which are of poison from the varvasco plant and likely to be 4 feet by 10 or 12 feet. As throws it into the river. Then for fully there are no outbuildings at all, there is no twenty miles further down the stream fish way in which persons can protect themselves | are gathered in canoes from the surface of against the cholera if it once appears in such | the water. They are only stupified by the a household. Sometimes if the well runs narcotic. The Jivaro cares nothing for as it travels on its radius. The Government, dry stagnant water must be used. A high sport so long as he can get the food. Yecaste personage will not allow a low caste to you never meet him without his lance poised and ready for his mark. He carries it Commonly, people go to the river for above his shoulder, swaying back and forth water. As the water is frequently not on with every step he takes. Even when the surface, a "tub" is dug in the river standing he keeps his right arm movingbed and the water allowed to collect. At always ready to strike. The Jivaro warrior this tub, or at the well, all the functions of is like a sentinel in war time. He is taught will be obtained from the fields already best manner of concordance. When this is bathing are performed. First the jar is when a child that he must be ever on the filled, and the water being dashed over the alert to defend himself, and so you see him person soon trickles back to its source. In | prodding his lance at your face without any the case of certain religious enthusiasts, reason. I was going to shoot on my first water is poured over the body fifty times. experience of this kind, but my guides excloth which is worn as a garment, must be laughed, but I laughed alone. In all my washed. This is dipped into the pool. experience with the savages I don't remem-

> cholera is in the air. In these river tubs When well supplied with chicha, an intoxispread of cholera, because their method of tity of chicha and call in the doctor. He bathing is so unintelligent. In southern at once proceeds to decrease the supply of India there is always more or less cholera. liquor. When almost drunk hesings, danc-It is often prevalent after a certain religious es, and goes through a hideous gamut of infestival-of the marriage of two divini- cantations. Then he looks at his patient ties-which is celebrated by an encampment | and sucks the affected place industriously. He spits out a spider.

"'How do you feel!' he asks.

"'No better.'

"He sucks again, and spits out gravel or a thorn. "The same question is repeated, and

wealthy man, who arrayed himself resplen- each time the doctor brings forth a scordently when he came to ask her to visit his pion, or lizard, or monkey's tooth, until the wife, thus showing his solicitude for his patient imagines there is some improve-

"If the first patient dies the doctor is for the doctor found her in a room adjacent suspected of being a witch; the second time to her husband's-a position of honor. The he is declared one, and the third time his woman was badly crippled and only ableto own life is in danger, so much so that his crawl down from her cot. Beyond playing own brother will assist in killing him. This with the children and polishing the jewels very thing came under my own observation. Director General Davis, of the Columbian station, and a body of German police went nothing relieved the monotony of her day and it was from one of these unfortunates She was entirely uncared for. A hole in that I got this dress and these ornaments. ate statistical table that the enormous sum on the precautionary measures taken during the wall for refuse was cleaned only once a The condemned man gave them to me

one of the better houses! Usually a sick Jivaro preserved heads. They are great person is placed in a room that is reached curiosities. The warriors decapitate their or enough to build a handsome city of 50, four Geheimsrathe, his physician, Dr. | cholera is always brought. It never starts dried. The pebbles are removed and a strange object the size of a man's hand remains.

But the dead face is horribly real.

The largest cave is the Mammoth Cave of Kentucky.