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AIRPLANES TO HAVE WONDERFUL SPEED

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Scientists Promise Great Things for the Future.

Our new air age promises to be a high-flying age. The 100 miles an hour of present type airplanes will, it is considered, be exceeded greatly by adapting machines so that they can take full advantage of the lessened resistance of the air at high altitudes. Before long we may look back on flying machines of today, driving a orious way through retarding lower air, with that same pity with which a traveler in the blue and gold Riviera express would let his thoughts wander back to the times when, sitting in open trucks, the first railway travelers joited along with cinders from the engine blowing into their faces. Wonderful results are rewarding an eight-years' research in sending airplanes up to high altitudes and there making them fly miles an hour faster than would be possible in dense air near the world's surface, writes Har-ry Harper in the London Contemporary Review. What science is profiting by now

are experiments, prosecuted assiduous-ly, in perfecting a "turbo-compressor," light, small, high-speed turbine, the function of which is to "supercharge" the engine of a high-flying plane.

What latest triumphs imply is a virtual abandonment of flying near the earth's surface, and an elevation of regular aerial movement miles above our heads. Hitherto planes flying at great heights have failed to profit in speed from the lessened air resistance of high altitudes because their motors have fallen-away in power. But the "turbo-compressor" supplies the en-gine with high altitude air at such pressure that the thinness of this air, as compared with low altitude air, is compensated for, and the engine preserves its power even at great heights. In recent experiments remarkable results have been achieved, not only with supercharged engines, but also with propellers having variable angle blades designed to function efficiently at immense altitudes. Sending up planes till they have been miles high, experts have been able lately to increase their normal speed by more than thirty miles an hour.

Scientifically, the quest now pro-ceeds along the following lines: Experiments are to be made in increas-ing still farther the height of "supercharged" flying, while another research will be to design an perfect saloons in which passengers can be carried through the air at enormous heights and speeds. Such saloons will be supplied automatically, under pressure, with air rendered just as breathable

as that at low altitudes. Scientists, enthusiastic as to the possibilities of immensely rapid flying through thin air at vast heights, now predict that researches will culminate in the institution of regular "superexpress" airways, miles high, along which globe-girdling craft will hurtle at 250 and 300 miles an hour.

That Was the Trouble

A stranger on the main street of Hornelsville, Ariz., came upon a bat-tered individual with both eyes blackened and face swollen with bruises, lying in a heap against the curb at the

principal corner. "What happened to you?" asked the stranger with some agitation. "A feller beat me up," was the re-

Complex and Varied **Riches Garnered From** Great Chilean Desert

Chile has many thousands of square miles of land capable of cultivation, yet its most valuable asset is a desert where the rainfall is seldom more than half an inch per annum. It does may deceive themselves; they may de not grow a single tree, or even a blade of grass, except where patche from the proper distance. Thus the surface of the sea seems quite dark of imported soil have been laid. This is the nitrate country, which employs 50,000 people directly and indirectly five times as many, and in which when you are very near to it, but if you climb into the crow's nest you something approaching \$200,000,000 is will see how clear the water is, and the higher you go the deeper you see, invested.

There are over one hundred and George Sarton writes, as quoted from seventy separate workings, each of "Transparency," in Scribner's Magawhich is the center of a busy population. Yet every ounce of food, every yard of clothing, every cog and shaft life in its true perspective, how trans-parent, how beautiful it becomes. This of its huge machinery, every pint of water even, has to be brought from transparency is, indeed, the very spice a distance. For many miles around the country produces nothing but of life. Among the many splendors of nature, what could be more impresnitrate of soda. It is an amazing fact that the most sive, more delightful than the infinite variety of the men and women who

pass,

secrecy.

valuable fertilizer of commerce from a region where nothing will grow, but it is a case of all fertilizer and no soil and no rain. In earlier days water was so valuable that it was a saying that it was cheaper to champagne, but now water is carried by pipes from far-off sources, some of which are 200 miles distant. for even if we were to understand each soul in itself, we would still but

Father Picked Moral

From Youngster's Joke A prominent Los Angeles attorney told the following story in a recent prominent Los Angeles attorney address to the graduates of a grammar school. He said that his son, a high-school graduate, came home on day and asked him if he were a good

mathematician, "Yes, my boy, I think I'm pretty good," the father replied.

"Well, then, I have a problem I'd like to have you solve. There were three frogs sitting on a log-a bullfrog, a tree frog and a toad frog. The builfrog decided to jump off. How many were there left?"

The father smiled. "Why, that's an asy one. Two frogs were left." "And that's where you are all wrong !" exclaimed the boy, grinning. "Three frogs were left, because the bullfrog only decided to jump off. He didn't jump.

Then the lawyer impressed upon his audience that a person who would win success must act promptly on his decisions.

Primitive Water Clocks

In the Malayan peninsula travelers recently found the natives using a most primitive method for measuring time. which has probably been in vogue for 5,000 years. It is called the water clock and is simply a small dish or round bowl with a small hole in the bottom. When this is placed in a tub of water it gradually becomes full and sinks, which always happens in the same period of time. On the Malay junks it is a common thing to see coconut shell floating in a bowl of water to tell off the time away from the home port. The ancient Egyp-tians used the water clock. The sand glass or water glass has two uses all its own at the present time-for boil-

ing eggs, and in the English house of mons to time the bells that ring to notify members that a division is at hand

Why Clergy Fought Light When the more progressive spirits in the British metropolis, years ago

WHY= Is the Human Soull Dam in Upper Egypt Is Engineering Wonder

I never cease to admire the indeli-One of the greatest engineering won-ders of the world is the great Sennar bility of human nature. It does not wear off. Whatever they may do, men are and remain what they are. They dam in Upper Egypt, where 126 white men and 19,000 natives are racing ceive others, especially the short-sighted ones, those who cannot look against time in an effort to harness the waters of the Blue Nile. The agricultural possibilities of the

great Libyan desert are tremendous. The heat there is intense, at times as much as 125 degrees in the shade; so hot, indeed, that sick men have to taken down into ice-packed cellars to be treated, the clinical thermome ter being useless above ground 'The masonry put in to hold back

If you have learned to contemplate the waters is roughly 450,000 cubic yards, and its total weight a million tons. Every day 2,600 tons of masonry are added to the structure.

Once a year there comes an exciting time for the engineers and all concerned-the period of the annual Nile flood. As a result of the heavy Afrimix and play before our eyes? can rains at the source of the Nile, Birds are pretty enough, and there seems to be no end to the beauty and the river becomes swollen and rises considerably. The floods are so regufantasy of their plumage, but what of lar that they can be fixed almost to a day.

At Khartum the Nile is in flood in more varied, more full of problems and June and at Assuan in August. By September the floods have reached enigmas of all kinds than the soul of Cairo, where the waters rise 32 feet above normal at Kasr-el-Nil bridge It is these floods that cause the great est anxiety to the engineers, and they watch carefully for any signs of weak ness, although if disaster set in, little could be done to avert it.

Why Physicians Have · Faith in Antitoxins

Toxins are the polsons of disease and produce the symptoms common, to the disease after circulating through the blood, explains Dr. Walter B. James in Outlook Magazine.

Antitoxins are substances that work against or neutralize the toxins in any given cases, and they are produced by the use of the bacteria or the tox-ins. These are injected into an ani-These are injected into an anlmal. usually a horse, in increasing doses, until, it becomes habituated to them and is no longer made ill by them. The immunity or resistance re sides in the blood, which has now developed a defense mechanism against the poison. The animal's blood is then drawn

off in small quantities, filtered and purified. This blood is in turn injected into the blood of a man, where i exerts the same protecting influence against the particular toxin by which it was produced as it did in the horse. This is, very briefly, the nature and mode of operation of antitoxic serums. The use of an antitoxin in diphtheria has already saved countless lives and has changed the once dreaded and fatal disease to a rather simple complaint if diagnosed early

and treated with antitoxin. The discoveries of the Dicks and of Dochez promise to give the same relief from scarlet fever when methods, originated only in 1924 are perfected for this particular disease

Why Collectors Worry

Look what is happening to the an tique furniture business. Here comes an expert from London, says Dey Goods Economist, who says there is no such thing as a Queen Anne walnu dining table, even though many of them are sold. Chippendale washstands are all bunk. People didn't use washstands in the days when Chippenhind, which is the snall's mode of pro- dale lived. Neither did they use side

Creatures That Take

the Palm for Ugliness writer describes the two earth pigs, or aard varks, at the zoological

gardens, London, as nightmares, says Christopher Bark in the Family Herald, and certainly, for sheer hideous ness they can give points and a beating to almost any other four-legged animal. Their nearest rival is probably the wart hog, with its fantastic tusks and huge wen or wart underneath each eye. Another mammal which is so utterly ugly that it makes one feel uncomfortable to look at it is the so-called naked bat (chiromeles torquatus). The body is stark naked, with a hideously greased black skin. Head and face are also naked except for a few scanty clusters of stiff hairs which grow out of wart-line excrescences. Around the neck is a collar of dingy brown hair resembling a

mangy fur tippet. The creature is not only repulsive to sight, but also to the sense of smell, It is a sort of winged skunk, the odor of which is literally sickening.

Among reptiles there are a number so fantastically hideous that no mere description can do justice to their looks, or lack of them.

since. The palm in this respect belongs to the horrid moloch of Australia, com-monly known as the "Thorny Devil." This is a stumpy lizard about eight inches long, of a dirty yellow color, with muddy brown patches. From the tip of its nose to the end of its tail it is covered with spines which are of all shapes and sizes. The largest grow upon its head and show up like two curved horns. Its feet are armed with

strong, sharp claws. The frilled lizard, another Australian reptile, lives on its looks. If alarmed, it gets upon its hind legs and instantly spreads an enormous ruff. It lashes its snake-like tail and opens a nouth full of needle-like teeth.

The octopus, incarnation of horron, is as dangerous as it looks. The sting ray, a hideous creature, has a power ful tail armed with a sharp spine which exudes poison like a fang. Tropic seas are full of fish of fantastic shapes armed with terrible spines and long threatening teeth. Not all these are bad as they look, yet as a general rule an ugly fish is also a dangerous one.

Selling Children in Peru

Legalized child slavery still exists in Peru-even in Lima, the modern capital city. Indian peons frequently sell their children to well-to-do familles for sums equivalent to about \$4.25. The sales are made usually when the children are about eight years old, and the purchasers have exclusive use and control of the children until they are sixteen years old in the case of a girl, or eighteen years if a boy. As long as the owner feeds and clothes the child no one can take it away. There have been recorded cases in which, when one woman sought to buy a child from another by offering the father of the child more money, the courts upheld the rights of the first mistress. Girls are sold more often than are boys, in-asmuch as the Indians regard girl children as liabilities.

Airplane Still Novelty

"I tried recently in a Cleveland hotel to buy an airplane postage stamp for a letter to San Francisco," writes Fred Kelly in the Nation's Business. "The stamp seller had none and said it was the first time he had had such a request. Out of curiosity I then went to another leading hotel and They not only didn't have such stamps, but evidently had never heard of them. I next tried the experiment of asking business men for information about the cost of sending a letter by airplane from Cleveland to New York. Of the Lincoln, that the position of the hands score I asked not one knew! The fact is commemorative of the hour of the is that the airplane mail service, notwithstanding the marvel of it, is still too new to be popular. It takes a long time for a novelty to sink into the pub-lic mind."

Hard to Get French

to Leave Homeland Vigorous attempts continue to be made by the colonial ministry to en-courage French emigration to the col-onies. But in spite of colonial expositions and a deluge of literature and motion pictures descriptive of life in those parts of the world where Franc has territorial possessions, few French people have been induced to leave their beloved homeland. The attachment of the French to their soll is, in deed, well known. They prefer making a mediocre living in their own country to prospects of wealth abroad And not

only is the average Frenchman loath to leave his country, but seldom does he abandon his native town or village. There are peasants whose families have been on the same farms or in the same districts for hundreds of years. A French writer has started investigating how long certain peasant families have been in the same place and has found some interesting examples. Thus in the village of Jeannet, in Burgundy, a farmer named Saclier has authentic records showing that the first Saclier began to till the soil of the farm in

Skis Used by Swedes Since Sixth Century

1672 and it has been in his family even

In Sweden ski running is at least fourteen centuries old, and probably dates back to prehistoric times, ac-cording to Prof. Otto von Friesen, of the University of Upsala. A runestone at Boeksta, not far from Upsula, shows

a picture of a ski runner, and it is probable -that long before they knew how to write runes the Swedes learned the art of skiing from the nomadic Lapps and Finns. Professor Friesen says that in the Sixth century southern European writers described hunt-ers in Sweden who were able to glide through the forest at high speed. The runestone, which dates from the mid-dle of the Eleventh century, proves that ski running was then common in Sweden,

In the Viking age skis were in frequent use. Winter sports had a special divinity, Uil, who was himself devoted to the use of skis. Outwardly he was the symbol of the bright, sunny winter day that stimulates to outdoor life and warlike games. Roads being rare, the skis furnished means of communication, no matter how severe the win ter, and speed on them was highly es

Had Origin in Quoits

The game of horseshoes is based quoits, which is a pastime resembling the ancient discus-throwing of Greece. Few traces of a game resembling quoits can be found on the continent of Europe and its origin may be sought for on the borderlands of Scotland and England. There are references to it in the midlands, dating from the be-ginning of the Fifteenth century. Ascham, in his "Toxophilus" (1545), fers to the game as being chiefly by the working classes, who often used horseshoes for want of quoits, a cus tom still prevailing in country

Designed for Convenience

tricts

The position of the hands of a clock is one which has been selected for the reason that it furnishes the greatest facility to meet the requirement for painting the longer name above the

Pure Bred Live Stock in Favor

NG. 12

Experience of Owners Who Are in Position to Make Comparison.

Propared by the United States Depart of Agriculture.) A report just issued by the Unitates Department of Agriculture A report just issued by the States Department of Agriculti-the progress of the better better stock campaign for the im-ment of domestic animals briefly why pure bred animals other' kinds. The informati-based on the average experies hundreds of stock owners who been in a position to make co sons. It thus points to the which other farmers who are erifig the improvement of the

which other farmers who are erify the improvement of the stock may expect from pure bri-and also from the combined pure bred sires and pure bred Summary of Points. Following is a summary points in which pure breds can Based on utility alone, pur live stock has an earning power a third to one-half greater the stock. Pure breds excel other in: Superiority and uniformity formation and type, greater mal formation and type, greater m early maturity and economy conversion of feed into mer wool and work.

Surplus pure breds are s satisfactory prices in a ma

The progeny of pure bred at practically a 50 per cent great value than the progeny of all pure bred.

Better breeding, combined proper and adequate feed, prac-prevents runty live stock, of the average farm has abe

Well-bred beef cattle. swine yield from 5 to 10 per ce meat than inferior animals same live weight, and the me better quality. Profitable Use of Fe

Improved live stock makes per cent more profitable us than common stock. Pure by grades, and grades excel ser The use of pure bred sizes

the ownership and use of times as many pure bred fer mals

The foregoing brief can based on thorough analy numbers of reports. The for better live stock which ment is conducting, in co with the various states, has in a gradually increasing of the many points in which animals are superior to en-stock. The study and conmal breeding are among the portant and practical means ing live stock enterprises mor able to farmers and also of in the quality of meats.

Barley Is Superior for Fattening Farm Sto

Barley is unsurpassed as a nume for clovers and alfalfa; it is a b feed than oats for faithening sheep and cattle; and since it is of the best substitutes for com-early maturing quality will make grain doubly valuable in a short summer.

hands and the shorter word below. The early maturing quality of h

isture in the ground for

on Species of Duck A study of the local names of American birds leads one to believe that

names are known for a single species of wild duck, the ruddy. In this case, as in others, some of the names have a touch of humor or local color that renders their study a pleasure.

women! what of men! Can there be

anything under the sun more complex.

man? The mystery seems bottomless,

be at its threshold. For we would not

yet know how each, of these souls

would react upon the others. Each

possible combination, each pair of

souls opens a new vista of endless

Many Names Bestowed

such appellations as booby, dumb bird and sleepy head, because it is slow to take alarm; and others like hard head, leather breeches and shot pouch, because so often it safely emerges from a perfect rain of shot. It has various derogatory nicknames, among the mildest of which are dinky, blatherskite and fool duck, says Forest and Stream.

"He moves at a snail's pace," is a remark frequently heard, especially when the subject is a youngster going

snall progresses at the rate of one mile in a fortnight.

our, citizens delight to invent names for the species in which they take interest. In almost any region names for certain birds can be found that are not used elsewhere. Hence it is possible to collect rather long lists of names for birds that attract popular

attention. For instance, 92 local

The ruddy duck, for instance, gets

Snail's Pace?

to school or an office-boy who has been sent on an errand. But even of the slowest of the younger generation the statement is, to say the least, slightly exaggerated. A recent experiment proved that a

If you place a snall on a sheet of glass and watch the underside, you will see a series of ripples along the animal's foot. This foot is a network of muscles, and the rippling is produced by these muscles lengthening the foot in front and shortening it be-

ply, "for n ot payin' a bill.'

.

"Why don't you send for a doctor?" "The doctor was here about a minute ago, pardner."

"Oh, you're all right, then?" 'Why, pardner," said the wou citizen, "it was the doctor's bill I didn't pay."-Hygela.

Beech for Fuel

Beeches are beautiful throughout the year. From the ground to their polished siender twigs the gray to brown bark is clean and smooth, and both bark and twigs are so distinctive that they are not to be confused with other trees of the forest. These trees famed not only for their beauty but for their many useful products as well, says "Tree Habits" by the American Nature association. Their wood is valuable for luniver and is made into floorings, furniture, tool handles, brush backs and kitchen utensils.

Testing the Pay Envelope

fuel it has no superior.

A writer in a recent number of Printers Ink asks this question, in subance: "Would you rather receive 00 a month and know you were stance: "Would you rather receive \$200 a moath and know you were worth more than receive \$300 with a sinking conviction in your heart that by the standard of wages paid to others you were being overpaid?" There are probably quite as many peo-ple-overpaid in the business world as there are those who are underpaid. When business slumps the overpaid ones are headed for a fall; the under-paid ones keep what they get and per-haps a little more. Christians in Minority When any one questions why the Christians churches send out foreign missionaries, members of the church can readily explain by pointing to the proportion of Christians and non-Chris-tian peoples in the world. There are, in fact, more than twice as many non-Christians in the world as Chris-tians, and although Christianity has made steady strides, many of the non-christian races are prolific and the ratio is not changing very rapidly.

pally operated street lights, they en countered much active opposition. The clergy were especially loud in their denunciation of the proposition. They advanced the following three stupendous claims against street lights: Artificial lighting is an attempt to interfere with the divine plan which has preordained darkness during the night time. 2. Illuminated streets will

duce people to remain later out of doors, leading to an increase in allments caused by colds. 3. Horses will be frightened and thieves emboldened.

Why Rooster Didn't Come

Martin Simonds of Rodman, N. Y., went to his henhouse to feed his poul-try one day during the winter. His responded to his call, except his rite rooster. In the afternoon favorite Simonds had occasion to go to the rear of the house and there, perched upon the rim of the rain barrel, was his lost rooster. His tail feathers were frozen into the water. Stmonds had to chop away five inches of the ice before he could liberate the rooster.

Christians in Minority

(New York.)

boards.

Composition of Yeast Yeast, strictly speaking, is a subtry. stance consisting of the cells of cer-tain minute fungi. It appears as a surface froth or as a sediment in fruit juices and other saccharine liquids in which it induces alcoholic

fermentation. Yeast is made of millions of minute, simple plants. What is popularly called yeast is a culture of such fungi or plants. Manufacturer cannot "make" yeast in the sense that they can mix chemicals and produce it. Yeast increases only by the multi-pleation of the fungi cells. In other words, you must have seed yeast to start with. Ordinary cake geast sold

on the market is composed of yeast cultures in other substances pressed into cakes.—Pathfinder Magazine. of yeast

Keeps on Keeping On!

When last I went West by way of the "Broadway Limited," 5 was sit-ting on the observation platform watching the scenery dash by, when the ing the scenery dash by, when the porter came out to straighten the chairs which had been left in some disorder by a group of young folks. "We don't seem to be going so much faster than an ordinary local train, George," I commented. "How, then, can this be the fastest train on earth?"

"Wall, suh," replied the African with a grin, "de fac' is we alls doan go no faster'n lots of them pesky lo-cais, but we gits dar in quick time be-cause we jist keeps on keeping on."---W. L. Barnhart, in Forbes Magazine

As for real Gothic furniture, well,

he has his doubts, whether there is any real Gothic furniture in this coun-

If this thing continues thousands of Americans will have to refurnish their homes entirely. They will have to buy new furniture whether they want to or not. They cannot be made the laughing stock of the nation, or even of furniture reports.

Two Howlers

Special notice has just reached me Special notice has just reached me of two excellent schoolboy howlers. The first is the most idiomatic trans-lation of "Pax in bello," which was rendered "Freedom from indigestion." The second relates to the well-known historical incident of Queen Elizabeth and Sir Walter Raleigh's chak. After describing the scene, the bupil made the queen say: "Sir Walter, I am straid I have

Sir Walter, I am afraid I have dirtied your cloak."

"Dieu et mon droit," replied Sir Wal-ter, which means in English, 'My G-d, you are right !"

Why Felines Purr

The purring sound made by cats is made by throwing the vocal cords into vibration measured and regulated by the respiration, and this vibration is strong enough to make the whole larynx tremble so that it may be felt or seen from the outside. Purring is highly characteristic of the cat tribe, though obably not confined to its it is usually the means by which these

His Decision "Say, what the dickens is all that yelling about, out back of the smoke-house?" demanded Gap Johnson of Rumpus Ridge, aroused from his doze on the porch.

"Maw was making soft soap and got her dress afire," replied Banty, one of "tarnish" Johnsen's offspring. "She's folling on Tribune.

the ground now, trying to put it out, and the children are watching her and hollering about it."

"Aw, well, if I want any dinner I reckon I'd better go and help her."-Kansas City Star.

others?" For some seconds the class re-mained dumb. Then a bright idea illuminated the face of an urchin, and up went his hand. "Collie flowers, Miss!"

on from 17 to 25 n oats. This is especially t present corn shortage. be threshed about the 8. Sometimes the longer name re-quires to be written in a semi-circle above the hands. There have been stories connected with the death of death but this is not true

wheat, eliminating two th making available a mids feed Barley is decidedly a oats as a nurse crop for alfalfa because it shades

more mo

less, and, by its early a

Young clover. Chiefly because of its lower centage of hulls, barley is a feed than outs for fattering sheep and cattle. Barley contain carbohydrates than either who outs, has less fat, and contain

no-third as much crude

nt for

Not Really Profanity

It is perfectly correct when you say that "darn" got into bad company and bok some of the color of "damn," But what is the origin of the word? "Darn", is not an intensive adjective meaning "very most," as you assume, but is an offspring of the Shakes-pearean word "dearn, tiern" which signified "terrible," originally "dark-

ened, solled." A cognate verb is "tarnish" (to soll).-New York Herald

Tracing Use of Gas

Natural gas was used in a practical way by the Chinese shortly after the opening of the Christian era for such purposes as the evaporation of salt

Kansas City Star. In the Edible Class "Yes," said the teacher, "we have several plants and flowers named with the prefix 'dog." Of course, the 'dog-rose' and 'dog-violet' are well known to you all. Can any of you tell me others?" For some seconds the class re-mained dumb. Then a bright lide tical conclusion by Winsor. In the United States the first gas plant was established in Baltimore in 1816, which was followed by one in Boston in 1823 and one in New York in 1825.

Within a stone's throw of the thedral donie the preservation of w is now the business of the whole w

Football on the Roof

is now the business of the whole there is a sports ground on cricket and football have been pregularly for the last 50 years. You might search for this a long without finding it—it is on the r St. Paul's choir house. There, most any day in the week, you find half-a-dozen youngsters in ball shorts or financie screcising wire-netted cage which is about length of a cuicket pitch. When the choir house was he was realized that it was necessarily the boys to have some place the boys to have so

they could play games, and, ing impossible in the crowd streets, a sports ground was on the roof.—London Tit-Bits.