

BIGGEST OF THE BIG GUNS

Giant Weapons of United States Defending Panama Canal Shoot Projectiles Weighing Over Ton.

It is not easy to understand what the power of a gun really is-its penetrating and destructive power, observes Popular Science. What we call a 15-inch gun-which means one whose muzzle or hollow part is 15 inches in diameter-will hurl a shell right through a plate or wall of the hardest steel 12 inches thick seven miles from the muzzle. The power of the very largest land guns ever made -the German howitzers or 16.5 guns -is such that one of their missiles cracks open a steel and concrete fort as if it were a nut.

There are two classes of gunsnaval guns and army or land guns. Because they can be manipulated more easily than those of a ship, land guns are the heavier. From eight to ten miles is the greatest distance that a gunner can cover successfully at sea. The largest naval gun is the 15-inch English gun on the famous superdreadnaught and the largest land gun is the German howitzer. Of the two the naval gun fires a shell weighing over half a ton, while the other fires a projectile a ton in weight. But the new giant 16-inch guns of the United States defending the Panama canal and New York at Sandy Hook shoot projectiles weighing 2,370 pounds, which is over a ton. These immense steel guns can sink a ship before it has really come into sight on the horizon, the location of the battleship having been determined by airplane or tower.

TAKING POISON OUT OF SALT

World's Supply Seems to Be Inexhaustible But None of It Is Wholly Pure Until Treated.

As far as the supply of salt goes it is estimated that there is enough available to last forever. Michigan alone, it is said, claims to be able to with all the salt it needs. But no matter how plentiful salt may be, it has the disadvantage of being a poison, for no salt is wholly pure. Thus, the pawnshops. if the poison in salt can be eliminated vast additional sources will be available.

Scientists have come to the front and have tackled the problem successfully. By adding a solution of just the right amount of sulphate of soda, the barium or poison in the salt is changed to sulphate, and with it is removed the pink or brownish color due to iron salts. Thus is made available an unlimited supply of salt, which

THE MILITARY AVIATOR.

He Must Be a Soldier, a Mechanic and Absolutely Fearless.

It takes aine months to make a military aviator. The profession makes the severest possible demand upon the resources of the individual. It requires a combination of physique, of courage, of nerve poise, to make the expert flier, while to do the work of an aviator in war involves technical skill that can hardly be characterized as short of scientific.

The military flier must be a soldier, a mechanic and a daredevil. Besides sailing his craft and fighting his enemies, he must be mathematician enough to make his observations, artist enough to take photographs, telegrapher enough to operate his wireless, navigator enough to pick his way by means of map and compass over unfamiliar landscapes and resourceful enough to contend with fog, with cloud and with the thousand and one contingencies which the hazards of the air involve. Furthermore, his most difficult technical duties must be performed while that element of the death constant with which he always rides is augmented by the nasty rattle of aerial machine guns around and above him and the yap of bursting anti-aircraft shells which pursue him from below. No man with the effects of dissipation vitiating his blood and unsettling his nerves can be trusted with the issues of the air .-Peter Clark Macfarlane in Collier's Weekly.

LIVING IN JAPAN.

Hard Work For the Middle Classes to

Make Both Ends Meet. Dr. Takata, Japanese minister of education, has recently published a book concerning economic conditions in Japan. The pinch comes harder upon the middle classes than upon the lower classes since the former must not only live, but must keep up a respectable appearance on salaries no greater than those that men who work at trades receive.

For example, according to Dr. Takata, a primary school teacher earns \$15.50 a month, but his lowest budget for a family of four reaches \$17.33. His wife must do work at home to

earn the deficit. A magazine editor and writer who has a wife, two children and a maid spends \$32.75 monthly on household sundries. His earnings supply the whole world for 2,000 years are irregular, but always below his expenses. He has been compelled to borrow money from his wife's relatives, and her trousseau is not unknown to

The learned author states that twothirds of the Tokyo doctors earn no more than \$50 a month. Obviously the professional classes of Japan are in the

grip of conditions that are far from en viable

Washington Monument.

The cornerstone of the Washington monument was laid on its fine site, which overlooks Washington, Georgetown. Arlington and Mount Vernon, by means more raw material for the President Polk July 4, 1848. Its marchemical industries, because the bari- ble shaft rises in all the dignity of unadorned simplicity to the height of 555 feet. The base of the shaft is fifty-five feet square, and it gradually tapers until at the 500 foot point it has diminished to less than thirty-five feet. This monument is said to contain 18,000 blocks of marble, each two feet thick. They were lifted on an elevator run by steam, suspended in an inner framework of iron, which was built up at intervals, thirty or forty feet at a time, in advance of the surrounding masonry. The aluminum capstone, pine inches high, was set in position Dec. 6, 1884, thirty-six years and a half after the cornerstone was laid.

OUR NATIONAL FORESTS. They Are 153 In Number and Are Scat-

tered Over Nineteen States. Under authority of an act of congress

passed in 1891 the president of the United States is empowered to set apart public lands bearing forests as publi: reservations. The primary purposes of the national forests are to insure continuous production of timber and favorable conditions as to flow of water. As means to these ends strict torians. supervision is maintained over the sale of mature timber, and the forest areas are guarded against fire.

These areas are much used by campers, hunters and fishermen. "Recrea- as well as a mine of information relation maps" are issued, which not only present maps of many of the nationa! large part of the United States. forests, showing towns, streams, roads and trails, but contain information pertaining to camp sites, fish and game. and campers' registers are kept at the Indies, that wonderful collection of unheadquarters of the forest supervisors. published, unedited and for the most The national forests, 153 in number. part even unindexed original docu-

Alaska and Porto Rico. All bet two tically embrace the administration of of these states, Florida and Michigan. the colonies under the dominion of lie west of the Mississippi. The total Spain in all the Americas. area of national forest land, excluding that of other lands within national forest boundaries, is 244,189 square miles. the sea, and these detailed reports, This area is nearly as great as that of contracts, cedulas and legal documents the state of Texas, or of New England of every kind, as well as thousands New York, Pennsylvania, New Jersey. Delaware, Maryland, District of Columbia, Virginia and West Virginia combined, or of Ohio, Indiana, Illineis Michigan and Wisconsin combined.

INSTINCT OF THE SPIDERS. EAT ORANGES AT NIGHT. They All Knew How to Land When

Then You Will Sleep Soundly and Riss

Happy In the Morning.

If you are troubled with sleeples: ness or if you are restless at nights, eat oranges before retiring. Oranges and the best sedative in the world. A man on the orange diet will never get rheumatism, and he will have no appetite for alcoholic liquors. Both apples and oranges cure the liquor habit.

Oranges, eaten before retiring, will make you sleep so soundly that you arise in the morning invigorated and refreshed, with the notion that you have been drugged with some potion that makes life all the happier and joyous. The acid of the orange will help purge you in case you need purging. and the sugar of the orange will sweeten your breath and your whole body. The coolness of the juice will reduce the fevers of your digestive tract, and you will be 1,000 per cent better off for the orange diet.

Orange buds and orange leaves steeped in hot water and made into a tea are also splendid sedatives.

The orange was originally a berry in Asia. It was brought into Europe by Alexander the Great, and it has been greatly improved since Alexander's time, especially by the horticulturists of California.

The oranges are not growing here for nothing. They thrive here because nature intends them to be used by you as a food.-Los Angeles Times.

When Brodie Bluffed Mitchell. Once when in England Steve Brodie. upon normal tissue. The radium molethe famous bridge jumper, was in a cule is the only agent known to man remarks derogatory to John L. Sullivan. to which Brodie rejoined with some sarcastic observations on the sprinting ability Mitchell displayed while in the ring with Sullivan. This angered the prizefighter, who knocked Brodie flat. As he scrambled to his feet Mitchell made another rush at him, but by then Brodie had a pistol in his hand and, thrusting it under his assailant's nose, remarked: "You think you're goin' to make a reputation off lickin' Steve Brodie, don't you? Well, you just hit me once and there'll be a lot in the papers about it, but you won't read it." That closed the incident.

Watches, Thick and Thin.

Climbing the Ladder.

The prudent, penniless beginner in

the world labors for wages awhile,

saves a surplus with which to buy

tools or land for himself, then labors

on his own account another while

and at length hires another beginner

to help him. This is the just and gen-

erous and prosperous system which

opens the way to all, gives hope to all

and consequent energy and progress

and improvement of condition to all -

Men Classified.

to buy a hat and enjoys himself.

falls asleep in the store.

ment.-Penn Froth.

Patriot-One who goes with his wife

Martyr-One that goes with her, but

Coward-The sneaky character that

always remembers he has an engage-

She Wasn't Old.

Mr. Gotrox, dear. He's an old woman

"Yes, but I'm a young woman."-Bos-

Some Hope.

"Does the doctor give you any hope?"

"Yes, indeed. He told us yesterday

not to worry about the size of his bill."

"There's no use setting your cap for

change.

Lincoln.

hater."

ton Transcript.

--Detroit Free Press.

MINE OF AMERICAN HISTORY.

Seville Has a Treasure House Packed With Authentic Facts.

becoming the Mecca of American his-

In the historic Spanish city of Seville, near the famous cathedral and occupying a frontage of about 200 feet, stands a building that is of paramount interest to the people of practically all the American republics. Because of the contents of this building Seville is

The structure is a veritable treasure house of authentic facts concerning the colonial period of all the Spanish speaking countries of the new world tive to the early history of a very

The house is known as the Casa Lonja, and the treasures it contains consist of the general archives of the are scattered over nineteen states. ments, reports, letters, etc., which prac-

> The mother country kept in very close touch with her children across of letters of officials-private and confidential as well as of a public character-form an almost inexhaustible mine of historical facts.-Exchange.

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All the goods we advertise here are selling at prices prevailing this time last seascu.

MINCE MEAT.

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Cast Adrift Upon the Waters. I took a large spider from his web under the basement of a mill, put him on a chip and set him afloat on the

quiet waters of the pond. He walked all about the sides of his bark, surveying the situation very carefully, and when the fact that he was really afloat and about a yard from shore seemed to be fully comprehended he looked

out for the nearest land. This point fairly settled upon, he immediately began to cast a web for it. He threw it as far as possible in the air and with the wind. It soon reached the shore and made fast to the spires of grass. Then he turned himself about and in true sailor fashion began to haul in hand over hand on his cable. Carefully he drew upon it until his bark began to move toward the shore. As it moved the faster he the faster drew upon it to keep his hawser taut and from touching the

water. Very soon he reached the shore, and, quickly leaping to terra firma, he sped his way homeward. Thinking that he might be a special

expert and an exception in that line of boatmanship to the rest of his companions, I tried several of them. They all came to shore in like manner .-- Virginia Pilot.

Radium Cures Cancer. Practically all experimenters have demonstrated one basic fact-that radium does destroy cancer cells without disintegrating effect producing any

um-bearing salt is used for making ice.

Delilah and the Czar.

Nicholas was not the first, nor will he be the last, to yield up judgment and will into the hands of a queenly and beautiful woman. The motive of Samson and Delilah of the vale of Sorek is a scarlet thread that runs through all history. And Empress Alexandra herself, a broken-hearted woman from the beginning, was led to the brink of the precipice by forces of tremendous and universal strength: her passionate and morbid love for her invalid son, born after long waiting, whose pains were alleviated, it would seem, by Rasputin's magnetic force, just as the fatal malady of the czar's father. Alexander III, was lightened by the similar but more benign power of Father John of Kronstadt; her obstinate and unconverted devotion for ed us the superior strength of the holthe land of her birth; her passion for autocratic power. Those are not vul- would be unable to support its head of gar or trivial motives; they have grain. Where did man get his idea for swayed great souls through all history .- North American Review.

Mildly Censuring Him.

"My goodness!" she says, with a pretty scowl, "I think a girl would feel dreadfully foolish if she proposed to a man."

"I should think so, too," replies the diffident youth.

"But, then, I suppose there are some girls who are just simply compelled to do the proposing," she signs.

After an hour's consideration of that remark he realizes what she really means .-- Woman's World.

His Scheme.

"How in the world do you manage to keep your cook so long?"

if she is working for us when we strike oil he will buy her an automobile." "But I didn't know you had any oil

prospects."

"We haven't."

Matter of Discipline. "Why does Bliggins tell that same story over and over?" "He has his family educated to

laugh at it. If he tries a new one, they are not sure whether it's an effort to be funny or only natural foolishness."

Making Up. Hubby-I've made up my mind for a nice comfy evening at home. Wife-And I've made up my face for an evening out. So come along.

-One of the most curious exhibits at the recent exposition at Knoxville, Tenn., was a building constructed entirely of Tennessee-Kentucky domestic black coal, put together with black cement.

Nature Teaches Inventors.

"We get our hints from nature," the inventor said. "Take, for instance, the hollow pillar, which is stronger than the solid one. The wheat straw show. low pillar. Solid, the wheat straw carriage springs? From the hoofs of the horse, which, like the springs derived from them, are made from paral.

lel plates. Scissors we get from the jaws of the tortoise, which are natural scissors; chisels from the squirrel, who carries them in his mouth; adzes from the hippopotamus, whose ivories are adzes of the best design; the plane from from the bee's jaws; the triphammer from the woodpecker."

Homespun Philosophy.

Don't wear out shoe leather seekin' trouble, for it's all time huntin' you and wondering why you live so far. The fields will answer the world's prayer for its daily bread if it's in earnest with the handlin' of the hoe. Some folks ask neither poverty nor "My husband has promised her that riches, but only middlin' ground and somebody to till it for 'em.-Atlanta

Minimum of Waste.

Constitution.

Star.

"No waste, now, ma; no waste. We all gotta help." "You attend to your own business," snapped ma with some acerbity. "The only things I throw away are tea leaves and eggshells."-Kansas City

Journal. Meager Achievement. "Methuselah was the oldest man."

"Yes," replied Mr. Groucher. "But so far as I've been able to find out the was one of those men who devote their time strictly to growing old and never attempt anything else."-Washington

Quick to Hear. Wifey-That Mrs. Brown must be an awful gossip. I never can tell her anything but what she's heard it before.-London Answers.

party which included Charlie Mitchell. which succeeds in doing this. Of that the prizefighter. Mitchell made some supremely important fact there is no longer the slightest room for doubtthat is to say, if the radium rays could be brought to bear upon every cancer cell this scourge would vanish from the world. The reasons that its use does not always succeed are many and too intricate for description in this place. But the records of so many positive cures are now available, cures of cancers usually regarded as hopeless and inoperable, that we must finally conclude that medical science has obtained a powerful weapon in its struggle with this disease.-World's Work.

The Rocker Rebelled.

In the early days of missions in Persia the people were naturally suspicious of the missionaries and were con-Although some of the early watches stantly on the lookout for something in were very small in circumference, they their houses which would exert a balewere thick, and the front and back ful influence upon native visitors. A fairly bulged so that they were more Persian lady, calling one day on an the shape of an apple than a cookie. American missionary lady, wished to which they really resemble today. The sit in a rocking chair, which was somewaferlike watch is an invention of very recent times, and the process of thing she had never seen before. She got up into it with her feet and atthinning it is even now going on. The obvious advantage of the thin watch tempted to squat upon her heels, as she would have done upon the floor, is that it can be placed in the belt or with the result that she and the chair pocket without making a bulge. If both took a tumble backward. Hence watches had always been worn round there went abroad a report that the the necks they might still be spherical missionaries kept in their houses a marather than disklike in shape. - Exchine for converting people to Chris-

Won't Need a Gun.

tianity .- Los Angeles Times.

Mrs. Irons-So you aren't afraid of burglars? No doubt your husband has a revolver?

Mrs. Lyons-Yes, but I'm so afraid of firearms that I have hidden it. Mrs. Irons-Then what protection would you have in case of a robbery? Mrs. Lyons-My dear, the way that man will roar at me when he can't find that gun will scare any burglar out of his wits.-London Answers.

Human Faces.

Dreadful limits are set in nature to the powers of dissimulation. Truth tyrannizes over the unwilling members of the body. Faces never lie, it is said. No man need be deceived who will study the changes of expression .- Emerson.

Her Threat.

Excited Man (to druggist)-If my wife tries to buy carbolic acid here don't sell it to her; she has threatened to disinfect my meerschaum pipe with it.-Boston Globe.

Its Class. "Mac's story sounded ridiculously improbable, didn't ft?"

"Worse than that; it sounded like a movie plot."-Life.



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