

THE UNITED STATES NAVY AS IT IS TODAY

Table listing various naval vessels including Armored Battleships, Torpedo Boats, Cruisers, Gunboats, and others, with columns for name, location, complement, and cost.

struction at the works of the General Electric company at Schenectady, N. Y., for the...

Every one who enjoys sitting by a wood fire must have observed how the wood splutters and hisses, and frequently gives off little jets of flame...

The perfection to which micrometrical mechanisms and the results of their industrial application are now brought is illustrated in a remarkable degree...

The Maine and Spain—A Refrain That Gives Pain

She is gone and we never will see her again she was blown up by some one and we think it was Spain she was of iron built...

3 verse Now it seems very strange and although it is true she was blown up by someone and god only knows who and the loss of the vessel which to us was so great besides killing two hundred and fifty and eight.

4 verse Now supposing the big Spanish vessel which in new york did lay was blown up in harbor in similar way would not Spain cry to heaven for don shells to rain and kill every man in our own Washington.

5 verse But uncle sam keeps his eye round he handle the ropes and for a thing like that to happen there is not the least hope for peace to his men they call her the main.

6 verse And again when Italy sent up the big howl about her sons who in new orleans she claimed was shot fowl did not uncle sam come up with his gold from the mint and paid an indemnity to the relations of those that got hit.

7 verse Peace is our motto and we make it our aim and from all treacherous actions we will keep our hands clean but if we have to fight we will all say amen and ask god in his mercy to be with us then.

8 verse Degeneracy of the Times Yes, there has been a great falling off in the human race in the last twenty years.

9 verse The young men who used to spend their days and nights in the profitable work of earning their meagre salaries are now succeeded by a race of degenerates who only color their fingers with the cigarettes they smoke.

10 verse The largest generator for electric traction work ever built is now under construction...



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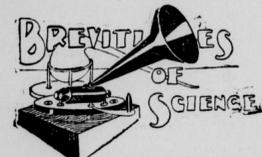
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Typewriters' cramp, it appears, has come to take the place of writers' cramp. We are told, however, that the discomfort of such a disease more than offset by the enforced relief from the cramp that the use of the typewriter is bringing to female operators.

Erythrol tetranitrate, said to be coming into use in Europe for heart trouble, is a remedy to be handled with care. Like many other nitrogen compounds, it is known to be very unstable, and an English pharmacist was lately killed by the explosion of a small quantity that he was mixing with lactose, with the utmost caution, so far as known.

An indestructible ink for writing labels on glass bottles is thus prepared, according to a German chemist. Into a solution of 29 grammes of brown shellac in 150 cubic centimeters of lamp spirit is slowly poured a solution of 35 grammes of borax in 250 cubic centimeters of distilled water, a suitable coloring matter—such as 1 gramme of methyl violet—being then added.

According to recent experiments by Prof. Trowbridge of the Jefferson Physical Laboratory of Harvard university, the X-ray burn, which has been observed by many physicians and others experimenting with the Roentgen rays, "is due to an electrification—a discharge at the surface of the skin—and this electrification may or may not be accentuated by the X-rays."

Nearly everyone is familiar with the glow which is given out in the dark by various kinds of fungi, but the fact that common, everyday blossoms frequently gleam in the night time is not so well known. The ordinary nasturtium is a simple illustration of the peculiar irregularity. The marsh lily, which grows abundantly in the marshes of South Africa, presents the same peculiarities.

The lessening of the number of life failures will be one of the future boons of science. The Childhood society of Great Britain, founded in November, 1896, has acquired the results of a scientific inquiry into the mental and physical needs of 100,000 children, and finds itself in possession of records of 1120 children who appear...

on account of defective constitution—to require special care and training. It is to be hoped that means of supplying these needs will be available.

What he calls the "sense of return" in pigeons and other animals is regarded by M. Pierre Bonnier, in the light of the latest investigations, as not due to a sixth sense excited by the earth's magnetism, but as an extraordinary development of the memory of direction or of the power of keeping bearings. Whatever it may be, this sense is one of the nine functions of the inner ear. This sense exists in man, but it has fallen into disuse, and it is in those species that it has attained great power.

The Russian province of Kursk proves to be one of the most remarkable areas of magnetic disturbance yet known. M. Mouraux reports that the differences between theory and observation are so great that it is not possible to draw isomagnetic lines, and the magnetic force is as great as it would be in the immediate vicinity of magnetic poles. The dip of the needle ranges from 48 degrees to 79 degrees. At two points about 450 yards apart the declinations are minus 11 degrees and plus 45 degrees, and the variation at two places about a mile and a quarter apart from minus 34 degrees to plus 96 degrees. Nothing near the surface to cause these anomalies is known to exist.

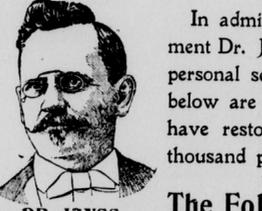
The smoke problem seems to have been solved for factories in a very satisfactory way by an Austrian engineer, Herr Fritz Maier. The solution depends upon closed furnace doors and slow feeding without admission of air from above, and it is effected by means of an automatic stoker, which drops the fuel in small quantities on the front end of the fire, and another automatic arrangement that gradually shovels the fuel along the fire. The apparatus is cooled by water which, as it becomes heated, is used to feed the boiler. Perfect combustion is claimed, and a trial of six months in a factory near Vienna is reported to have resulted in a saving of 25 per cent in fuel and 80 per cent in labor, one stoker doing the work of ten.

Hidden flaws in guns, engine cranks, railway wheels, propeller shafts and other steel castings are prevented in the process of Mr. Ellis May by an ingenious use of vacuum chambers. The mold is placed in an air-tight chamber from which the air is exhausted. The chamber is surrounded by a series of other vacuum chambers, each connected with the central chamber by valve-controlled pipes, and in this way a reserve of vacuum is produced. At the moment when the steel is poured the controlling valves are opened,

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