

CHANGE IN WARFARE.

Concentrated Earthquake and Cyclone the Coming Agents.

NO COSTLY ARMAMENT REQUIRED.

War Will Be Quick, Sanguinary, Terrific and Decisive.

NITRO-GLYCERINE AND ITS ALLIES

(WRITTEN FOR THE DISPATCH.)

Although the present is an age remarkable for its innovations, it still takes time to introduce and establish new ideas. So wedded are we to the old, that changes generally come some considerable time after the utility of the new order is recognized and its practicability is conceded.

Gunpowder so revolutionized all military arts, and was such a decided advance on all previous methods, that the nations throughout the world still cling to it with the utmost tenacity.

No Systematic Blowing Up. Of course, there have been attempts made at direct "blowing up," but not in a systematic and general way.

In general terms, the plan has been and still is, to generate gases in a strong chamber with sufficient energy to expand a metallic missile with great velocity.

But later chemistry has produced what will not only supersede the ancient explosive, but what will relegate to the rear, as both useless and ridiculous, the present explosive.

There is no doubt that the explosion of a few miles of the object aimed at to insure its utter annihilation.

The Power of Nitro-Glycerine. Let anyone that is conversant with this explosive undertake to calculate the distance that would be traveled by a shell, large or small, should it be fired.

But, as nitric acid and refined grease are both plentiful and cheap, it is not surprising that the letting loose of dozens of tons of this concentrated and potent lightning, should occasion call for it.

Let us assume that a hostile fleet is on its way to your port, and that you are equipped with a fleet of torpedoes.

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SCRAPS OF SCIENCE

Some Recent Novel Innovations in the Mechanical World.

IMPORTANT USE FOR COAL TAR.

The Application of the Fand Plast in English Practice.

UNIQUE THEORIES ON VARIOUS TOPICS

Coal tar has recently come into extensive use as a means of rendering masonry impervious to water.

The application of the fand plast in English practice. The fand plast is a material which is used to render masonry impervious to water.

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THE ESTABLISHMENT OF M. MANTOIS IN PARIS

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Their practice is to import the best of the "cheap" glass, and to grind and polish it on both sides. The first grinding is done by machinery, the abrading material being Tighman's chilled iron globe.

The American optical case rank and file foreign. The final touch and the polishing are all done by hand, the rouge being applied on the tip of the finger.

It is necessary to employ constant tests during the course of the grinding, these are made by means of a spherometer, but such tests simply insure accurate curvature, and by their very nature can take no account of irregularities in the texture of the glass, these being detected only by the eye.

When the preliminary polishing is finished the lens is roughly mounted and submitted to the most rigid examination—that is, a beam of light from what is called at the Messrs. Clark, the "optical test" is transmitted through the lens, and enables the workmen to locate defects of all sorts; the remedy is a matter of touch and try, and is a long and tedious process.

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The furnace consists of two side walls and one end wall, a second furnace or annealing oven, the flames and heated gases from the outer space pass through numerous perforations in the two side walls into the middle chamber, and, after traveling through this space, escape by bottom flues furnished with dampers, to the chimney stack.

Only one fire is used, and the pot containing the articles to be annealed is placed in the middle chamber, subjected to a uniformly distributed heat; hence the pot does not suffer from undue strains or buckling, and therefore lasts longer.

The uniform distribution of the heat, and the absence of any draft, and likewise causes a reduced fuel consumption.

At the Blochman works, near Glasgow, of the Steel Company of Scotland, who are known as magnolia metal has for some time been resorted to with a view to obviating the trouble caused by the heating of roll necks, and the rapid wear of the journals.

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NEW ADVERTISEMENTS

ALWAYS AS ADVERTISED! That's why Laird's Special Bargain Sales are so largely attended by the best people.

IN ONE OF LAIRD'S SPECIAL REDUCTION SALES MORE REALLY FIRST-CLASS FINE SHOES ARE SOLD THAN AT ANY OTHER STORES.

Every pair is warranted with privilege to exchange or money refunded.

Laird's Special Shoe Sale

ABSOLUTE VALUE

POSITIVE REDUCTIONS. NEARLY HALF PRICE THOUSANDS DAILY FITTED.

Men's Finest Patent Leather Shoes Reduced from \$5 and \$3 to \$2.90 & \$3.90

Men's Finest Cordovan Custom Shoes Reduced from \$5 and \$7 to \$2.90 & \$3.90

Mens' Finest Calf Custom Shoes Reduced from \$5 and \$7 to \$2.90 & \$3.90

Men's Genuine Kangaroo Shoes Reduced from \$5 and \$5 to \$2.90 & \$3.90

Men's English Grain Shoes Reduced from \$5 and \$5 to \$2.90 & \$3.90

Men's Puritan Calf Shoes Reduced from \$4 and \$5 to \$2.90 & \$2.50

Police and Firemen's Shoes, Letter Carriers', Oil Drillers and Hunting Boots,

PRICES GREATLY REDUCED.

IMMENSE ASSORTMENT, ALL SIZES.

MEDIUM GRADE SHOES