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### The Scientific World.

Sweeping, of, more properly, cleaning rooms by the vacuum process is now a success in large buildings. It has been suggested that the apparatus might be adapted to use in private houses which are supplied with electricity for driving the vacuum pump.

A zirconium incandescent lamp for electric lighting has been invented in Germany which gives much more brilliant effects than carbon lamps in common use. Its cost is greater, but the saving in the consumption of electricity to get the same amount of light is said to be very important.

Sir Howard Grubb has invented a new signt for firearms which does away with the front sight altogether. It consists of an arrangement of mirrors by which a cross mark in the sight appears to be directly upon the target when the gun is aimed squarely at it. It i adapted to use on rifles and large guns.

The Brown wire-wound gun has given the greatest velocity yet attained in America for a gun of large caliber. An army test at Sandy Hook not long ago, showed this new form of gun to give an initial velocity of 3,300 feet per second. Though some fault has been fo nd with the wire-wound gun, it appears to be winning its way.

It has been supposed that balls of fire, in connection with lightning, were illusions due to the effect of the flash upon the retina of the observers eye. However, the scientist Plante has stated that in his own researches he has produced these fire balls on a small scale. The phenomenon has not as yet been explained, but its reality is not now in doubt.

Experiments in France for the purpose of whitening, or bleaching flour, by means of electricity, proved that this could be accomplished. The flour was brought into contact with electrified air, the ozone of which was found to render the flour much whiter. The brend made from this flour was found to be of an inferior taste, as the bleaching process had the effect of injuring the quality of the flour.

An ærial torpedo has been devised which is discharged like a sky rocket, exploding when it strikes the ground or water. The torpedo is fired from a tri o!, which can be adjusted at different angles, varying the distance to be covered. Or the lifting charge in the rocket itself may be changed to suit the distance of the object fired at. Tests proved the new weapon to be effective, at a comparatively limited

A German chemist has made a soap for the use of painters and others handling materials in which there is much lead, which is said to do away entirely with the constant danger of lead poisoning incident to such occupations. The soap produces sulphuretad hydrogen, which transforms the lead into harmless sulphide of lead and render it possible to cleanse the skin absolutely. The same production of inocurus sulphides takes place when substances containing copper, mercurv. and arsenic, or any of them, are washed from the hands with this

The largest floating drydock in the world has been completed at the Maryland Steel Works yards for the United States government, and it will be t we 1 14,000 miles to the Philippines. Four hundred men have been employed two months cleaning and painting the 1,500,000 square feet of steel plates. When the dock is launched, it will be towed to Patuxent River, where tests will be made with a big battle-In the contract it is stipulated -hall lift a 16,000 ton battle-Fire dock weighs 11,000 tons -1.124,000.

The following are a few of the many things we sell that would make suitable Christmas presents. Our catalogue, a copy of which we will mail you on request, will suggest many more.

### 'Starr" Hockey Skates

Shamrock Boys, plain, 50c per pair. No. 20 Plain Steel, all sizes, \$1.15 pair. No. 25 Nickel Steel, all sizes, 1.50 pair. No. 20 Bracketed, plain, all sizes, \$1.35

per pair. No. 25 Bracketed nickel, all sizes, \$1.75

No. 7 Best quality, plain, \$2.00 per pair. No. 10 Best quality, nickel, \$2.50 pair.

'Hyde Park" Skates The best machine-made double end skate on the market. They are made in all sizes, and with flat or rounded blades, and nickeled. Every pair of these skates is guaranteed against defects. Price \$3.00 Pucks

#### **Dunne's Tube Skates**

For hockey or racing, round or diamond-shaped tubing, nickel or aluminum finish. Every pair of these skates is guaranteed. Price \$5.00 per pair. Dunne's Tube Skates for Ladies, extra

light, \$5.00 per pair. In ordering skates state size of shoe

#### **Hockey Sticks**

Boys' Rock Elm, oiled, 20c each Men's XX Practice, 25c each. Men's XXX Rock Elm, 30c each Men's XXX Long Blades 35c

each. Men's Injun, 40c each. Smith's Special, selected rock elm, long blades, 50c each. Men's Mic-Mac, 50c each.

Men's Spalding's Match 50c each Men's Special Match, hand finished, extra long blades, 65c ea Built up defence, hand finished, long blades, 85c each.

No. 3 Boys', 15c each. No. 2 Men's Practice, 25c each. No. 1 Regulation Match, 40c No. 0 Special Match, extra soft,

Hockey Gauntlets, \$1.50 each.
Hockey Knickers, plain, 60c pair
Hockey Knickers, padded, \$1.25

### Boxing Gloves

In endless variety and of exceptional value. We particularly recommend any of the following. The prices quoted are per set of 4

No. 300 Boys', \$1.75 No. 25 Youths', \$2.00 No. 24 Men's, \$2.00 No. 339 Youths', \$2.50 No. 23 Men's, \$2.50 No. 21 Men's, \$3.00 No. 19 Men's, \$4.00 No. 15 Men's, \$4.50 No 11 Men's, \$6.50

## Hockey Shin Pads No. 640 Boys', 30c pair No. 6 0 Men's, 50c pair No. 6 10 Men's, 75c pair No. 660 Men's, \$1.00 pair No. 650 Men's, \$1.25 pair

Toboggans

Indian, 2 ft. long, \$1.50 3 feet \$2.00; 4 feet \$2.25 5 feet \$2.50: 5½ feet \$3.00 6 feet \$3.25; 6½ feet \$3.50 7 feet \$4.00 each,

#### Game Boards

No. 1 Archarena, on which 50 different games can be played, \$2.00 each. No. 2 Archarena, for 56 games, \$3.00 each. No. 1 Crown Board, for 65 games, \$5.50 each. No. 4 Surface Crown, for 100 games, \$4.50 each

Safety Razors

Gillette Safety Razors, complete with 12 double-edged blades in neat morocco case, \$5 00 each.
Star Safety Razors, in tin case, \$2.00 each.
Star Safety Razors, with extra blade, \$3.25 each.

N.B.—We despatch goods the same day that order is received

The Hingston Smith Arms Co., Limited, 

Winnipeg

# AN "ORME" FOR XMAS

\$15.00 down—payments to suit. 3 styles, 3 prices.

There are three sizes of "Orme" pianos now made---the same quality of workmanship and material goes into the small as the large, only the case work and size regulating the price.

The ordinary purchaser of a piano has to depend altogether on what a dealer tells him, being unacquainted with the mechanism of the instrument, and consequently unable to examine for himself.

Our reputation of 44 years square dealing goes back of every "Orme" piano sold, and we unhesitatingly state that equal value cannot be secured elsewhere in Canada at the price. This is a very strong statement from a conservative house---write for our proofs to-day.

# SPECIAL **OFFER**

We'll ship an "Orme" direct to youon trial—provided that you buy if our prices and terms are entirely suitable. We couldn't make a fairer offer.-write to-day.

"A good piano should last a lifetime and an "Orme" will."



Many a housekeeper has bemoaned the purchase of a 's pretty'' piano after all her efforts to keep the case in condition have failed.

Buy a piano for its tone, lasting quality and neat case designs—these are the principal points to be considered—and the "Orme" covers them all. Thirty years of ripe experience was needed to produce the "Orme" which now contains every modern device for tone production, including the 'Violoform' Sounding Board and the Cupola Steel Frame. Write for descriptive drawings to-day-sent free to any address.

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**ALL FOUR PREMIUMS** 

## New Parisian Delight

Is a powder, when mixed with water makes a most delightful PERFUME of the highest quality. To test its merits we will send enough powder to make 50c worth of fine perfume upon receipt of only 10 cents. Address INTERNATIONAL, AGENCY CO. 16 THORNTON ST. - - GTTAWA, Ont.



