

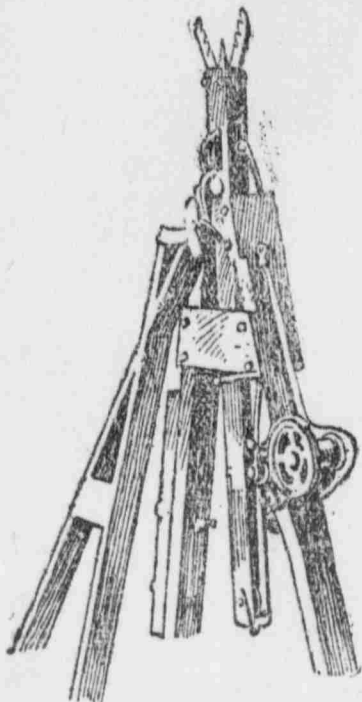
# THE WORLD'S WORKERS

## SCIENCE INDUSTRY INVENTION

### POLE RAISING MACHINE

Dispenses With the Services of Several Men.

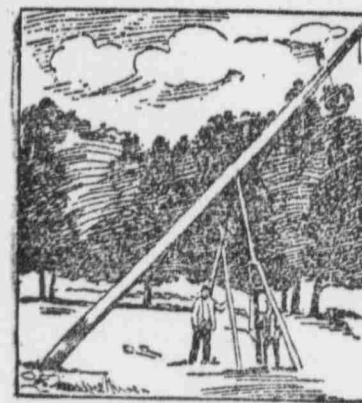
Ever since there arose the necessity for the use of poles to carry electric wires the methods pursued in erecting them have been about the same. The modus operandi is something like this: The hole is dug to the desired depth



POLE-RAISING APPARATUS.

and the pole rolled over until the lower end of it overhangs the trench. Then the services of numerous sturdy men armed with a variety of appliances are called into play and gradually and laboriously the pole is raised.

A pole-raising apparatus is now made for this work, and its chief claim of merit is that it dispenses with the services of several of the members of the "gang" formerly required for the work of elevating the stick. These men had little to do except during the actual operation of raising the pole. During all the time of the preparation of the hole they sat idly around, as there were no means of employing them. This made them rather expensive employees, although they represent an inferior class of labor. According to the American Electrician this machine consists of an A-frame, carrying a wooden telescoping beam, together with means for raising and lowering the beam with relation to the frame; in brief, the apparatus is a mechanically-actuated pike pole. The telescoping pike carries a sheave at its lower end, but at right angles to the lower one. At the extreme upper end is the usual spike, flanked by a toothed arm on each side, the function of the arms being, of course, to embrace the pole and prevent its slipping off the point of the pike. A rope or cable is secured at one end to the left-hand leg by the A-frame, passes down



POLE BEING RAISED BY MACHINE.

around the sheave at the lower end of the pike pole, and up over a similar sheave near the upper end of the right-hand end of the A-frame, whence it goes to a winch or "crab" mounted on the frame. It is obvious that turning the handle of the crab in the proper direction will wind up the rope or cable on the drum and raise the telescoping pike.

The method of usage is as follows: The rope shown passing over the upper sheave in the pike is tied in a loop around the end of the pole lying flat on the ground, and the pole is raised by the machine until a "dead-man" can be got under it. Then the machine is shifted toward the base and a new hold is taken, this time by the pike and the embracing arms.

#### Novel Life-Saving Device.

A novel and extremely simple life-saving device has been invented by M. George Broussel. It is a sort of automatic folding buoy, and is formed merely of two boards of wood, which are joined together in the center. In ordinary weather it can be used as a seat on board a vessel, and when there is danger of shipwreck it is thrown



CHAIR LIFE-SAVER.

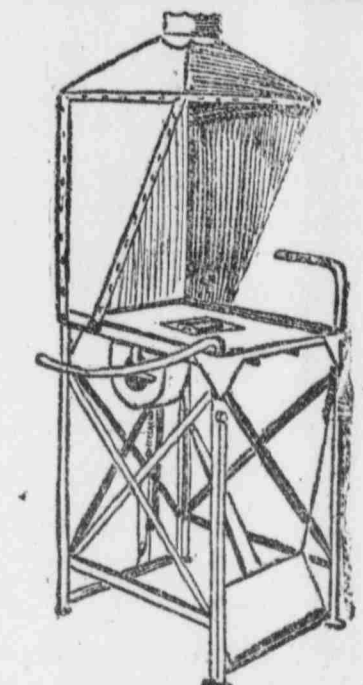
overboard, when it opens and forms a sort of raft.

### A PORTABLE FORGE.

Designed to Be Shipped From Point to Point Wherever It Is Desired.

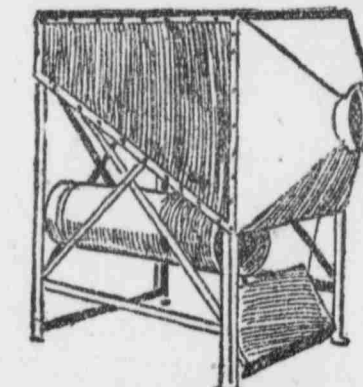
A portable forge designed for the use of construction firms which are called upon to do work in different places is shown in the accompanying cuts, which are taken from an English exchange.

As it has no bellows it is not affected by moisture or extreme heat or cold, and is therefore suited for all climates. An eight-inch fan operated by a treadle supplies the necessary draught. The hearth and pan are made of asbestos, especially treated



PORTABLE FORGE, OPEN.

to withstand the wear and tear. In order to secure the greatest economy of room during transportation the hood is made so that it folds down over the forge, inclosing and protecting it almost as thoroughly as if it were boxed. In case of breakage it is said that the forge can be readily repaired by any workman. The fan is very easily removed for cleaning or other

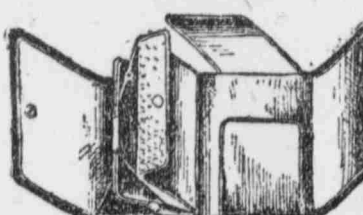


PORTABLE FORGE, CLOSED.

purposes. The forge is the invention of John Bauer.

#### Holds Milady's Pin Money.

The accompanying little sketch shows one of the latest pocketbooks for women that possesses several good features. The arrangement for carrying bills shown by the picture is especially good as many more bills may be carried in it than in the small pocket usually provided in ordinary

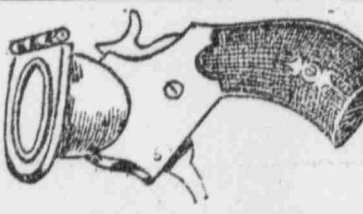


A MODISH POCKETBOOK.

purses. Then, too, this pocketbook may be closed quite tight with any number of bills in it, an advantage which every woman will appreciate. This convenient purse has also a pocket for cards and a lock clasp compartment for coins. It closes by folding one end over the other and fastens with an ornamental socket and fall snap.

#### Pistol That Fires a Flashlight.

Flashlight pistol shown in the cut offers a convenient means of using



FLASHLIGHT PISTOL.

flashlight powder. This pistol is made up in much the same manner and has practically the same action as a revolver. In place of the barrel of a revolver there is a bowl about one and one-quarter inches deep to hold the flash powder. The bowl has a spring hinge cover, which is opened by trigger action just before the powder is ignited. The pistol can be loaded and carried in the pocket ready for instant service. A paper cap placed under the trigger ignites the powder at the bottom of the bowl, thus blowing it out into the air, where it burns instantly.

### HOT DISH WRINKLE.

Asbestos Mat to Cover Table Permits Free Disposition of Dishes.

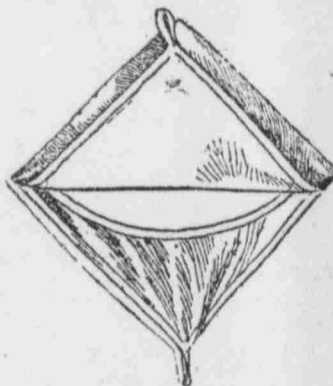
The asbestos pad for dining tables will be hailed with joy by all housewives, as it fills a long-felt want. It does its work so effectually, is so convenient, and, being under the table cloth, is hidden entirely from view. Small asbestos table mats, placed on



ASBESTOS DINING TABLE PAD.

top of the table cloth and then covered with a doyley, are quite familiar, but this pad covering the entire top of the table is a great improvement, as it insures absolute protection for the top of the table, yet allows any and all dishes to be placed on any part of the table with perfect safety.

It is covered with white cotton flannel, thereby serving as a silence cloth also; it is flexible, light, easily cleaned, neatly bound, and, as may be seen from the accompanying sketches, when not in use may be neatly folded, and put away. The slips, as illus-

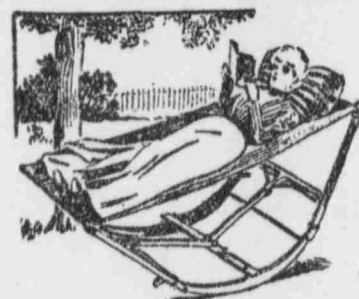


IN SLIP WHEN NOT IN USE.

trated, that come for holding them when not in use, may be had for twenty-five cents each. The pad, when open, covers the entire top of the table, but does not hang over, and comes in the standard sizes to fit any size table, round, square or oblong. Special sizes may be had to order. The ordinary sizes range in price from five to six and a half dollars.

#### Rocking Chair and Hammock.

Below is to be seen a novelty in a combination chair and hammock which, being capable of numerous adjustments to suit the desire of the occupant, should prove itself a very comfortable piece of furniture for the

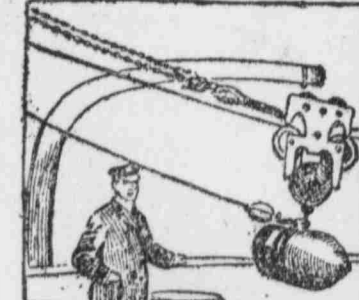


#### FOLDING HAMMOCK AND ROCKING CHAIR

porch or lawn. For those to whom the swinging motion of the hammock gives a feeling of nausea it may be that the different direction of the movement of this new invention will be found more comfortable. When it is desired to use the device as a chair the supports at the centre are loosened to allow the four end braces to tilt nearer together at the top, when the slack in the fabric can be drawn toward one end. As a person sits down the chair will tilt into its proper position and provide a comfortable seat.

#### A Shell on a Trolley.

The ingenious device shown in the accompanying illustration is the invention of a British gunner. The chief advantage of the invention is that a shell can be hoisted from the lighter, run along a wire pendant and lowered by one man to the department

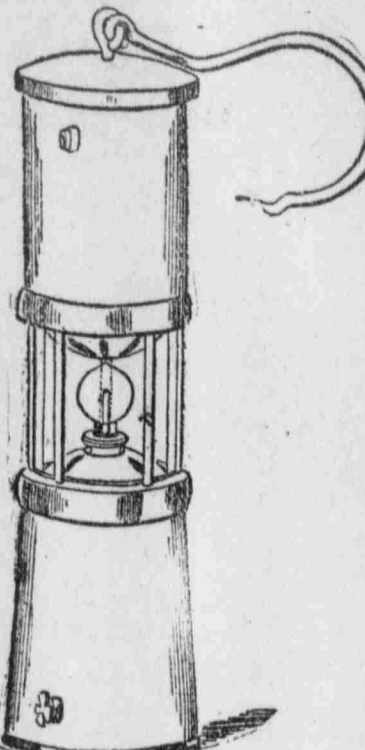


set apart for the purpose, thus saving much manual labor. The apparatus shown, the use of which is obviously not restricted to the handling of ammunition, was made by the chief armorer at Malta.

### ELECTRIC MINE LAMP.

New Type Recently Brought Out in Germany.

An electric safety lamp for mines has just been brought upon the market by a German manufacturer. The apparatus as illustrated might be described as the Headland lamp, with

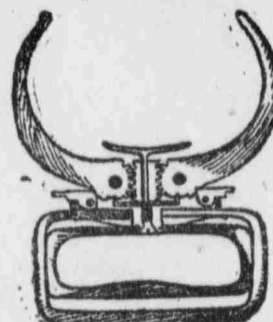


ELECTRIC MINE LAMP.

the addition of the cylinder shown underneath the incandescent lamp. It differs from usual practice in that it has four accumulator cells in place of two, and eight-volt lamps are used in place of four volt. On the other hand, the lamp is stated to furnish three candles, as against the one-candle power of some other lamps. Two of the accumulator cells are carried in the cylinder above the lamp, and the other two in the cylinder below the lamp, the connecting wires being carried in the tubes which form the pillars between the two divisions and which protect the glass outside the incandescent lamp. Reflectors are used above and below the lamp, as in the Sussmann lamp. The apparatus is stated to have been tried in some of the Westphalian mines and to be only one-quarter pound heavier than the ordinary miner's lamp, while it will burn for thirteen hours if desired, but it is recommended to charge it after ten hours. For charging, the wires from the dynamo are connected to the terminal shown projecting from the top cylinder, which is the positive terminal, and to the terminal shown projecting from the bottom cylinder, which is the negative terminal, and which is connected to the case. The batteries are protected by aluminum cases.

#### Automatic Lock on Handcuff.

With the ordinary handcuff there is not a little opportunity for a strong prisoner to escape before the bracelets can be clamped on the wrists, and it would, perhaps, be an advantage to the man making the arrest if the jaws were arranged to lock automatically as soon as the cuff touched the wrist.

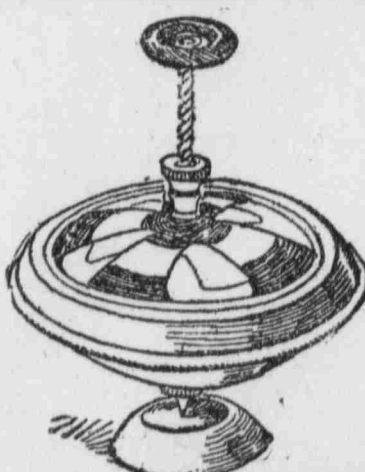


#### MECHANISM FOR SPRINGING THE JAWS.

This is the end sought to be attained by Frank Headson, of Lafayette, Ind., with the invention shown in the accompanying picture. This arrangement provides an automatic trigger to close the jaws instantly when brought into contact with any object between them, and also arranges for the release of the jaws by closing the hand slightly on the handles of the bracelet.

#### Continuous Spinning Top.

Something new and ingenious in the way of tops has just been brought out by a Philadelphian. The top has two features, the method of spinning and a constantly changing play of colors which is to be seen on the upper surface of the toy. The device is built somewhat on the principle of a ratchet



CONTINUOUS SPINNING TOP.

drill, and it is started and kept going by an occasional pressure on a knob. As each thrust the colors seen on the top undergo a change.

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