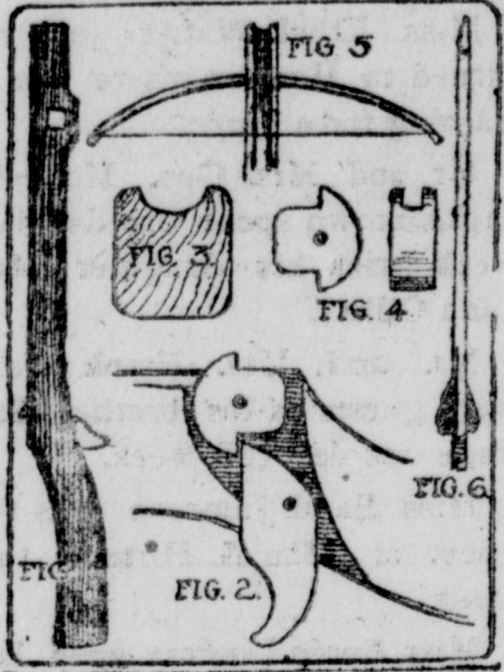


LEARN TO SHOOT WITH A CROSS-BOW

Here are some instructions for Making a Gun That Will Make a Boy Happy

Robin Hood, one of the most magnificent archers the world ever produced, became so by constant practice with his good yew bow. There is hardly a boy in the land who does not wish to emulate Robin Hood, so far as his prowess in archery is concerned, and a great deal of innocent amusement can be had out of a good cross bow and a quiver of arrows or bolts. It is a simple matter to make a good cross bow that is much better than anything that can be purchased.

Any kind of wood will do for the stock and the size is not important—it should be made to fit the youngster who is to use it. At the same time they should be enough attention



given to the construction of the trigger attachment to give the youth instruction that will prove highly valuable to him when he reaches the age when he can be trusted with a real gun.

The bow should be made of ash or lanewood free from all imperfections. It should be shaved to a diameter of 3/4 inch in the middle tapering to 3/8 inch at the tip. Stout cotton or linen cord should be used for the string and the bow should be so made that it can be kept unstrung when not in use.

The arrows can be made of any straight piece of wood and should be made small enough to fit into whatever sized groove the cross bow has. Following the patterns laid out in the diagram will give the boy such a bow as is not to be found in any store and it will last for years. The cost of the entire equipment should not exceed thirty cents.

Shape the stock as in Fig. 1 of drawing with square hole near end, through which passes the bow, made square near its middle to fit it; hollow out place for trigger, which is placed in as shown in Fig. 2, the trigger consisting of the "hammer" slightly, the "hammer" or the thing that holds the bow string when pulled back is shaped as in Fig. 4, the rounded side giving a groove through which the arrow slides when the string is drawn back. Fig. 3 shows cross section of other end of stock, the groove running clear up to the trigger. Fig. 5 shows bow fitted in stock; Fig. 6 is arrow.

MERCURY BICHLORIDE

How to Prevent Accident by Mistaking for Other Medicines

Various methods designed to prevent the mistaking of bichloride of mercury for medicine, or some other hazardous substance, have been proposed with the idea of making it possible to use this deadly poison as an antiseptic without incurring any danger. Two of the latest of these are extremely simple but evidently effective. One method consists in stringing the tablets together and then potting them in the usual manner. A tablet can only be detached by cutting the string, and this apparently does away with all possibility of mistake. The other method is to incase the tablets in metal guards having sharp prongs, so that it is impossible to swallow them. The tablet can be dissolved with the guard in place or can easily be removed from the guard.

To Economize With Gas Always keep the main gas tap only half on. If it is turned on full the gas

washes through the pipes, and a great deal is wasted.

It is a great mistake to believe that the higher the gas is turned on the greater the heat and the quicker the saucepan will boil.

When the whole of the oven is not required, lower the "browner" or plain iron sheet half-way down, and use the lower half of the cooking. This will use very little gas.

Get a sheet of very thin iron the size of the top of the gas stove with narrow raised edges. Put this in the stove after lighting the largest burner, and several saucepans can be kept boiling with that one ring.

FINE PARCEL CARRIER

A Few Paper Bags and Come Twice as Good as a Wagon

The comic supplement artists who gain money and fame by depicting the weary family man plodding homeward carrying a miscellaneous collection of boxes and bags are weeping and wailing and gnashing their teeth. A Londoner has devised a way of carrying a bag that cuts out half the labor.

Some humorists might declare the only way to do this is to have the packages sent home in a delivery wagon. This man carries his, but he doesn't pile them up in his arms nor is he worried all the time whether or not one or more of them will fall by the wayside.

The gentleman simply uses a common paper bag and a string or a collection of paper bags and several strings, as the occasion might demand.

He fashioned a handle for each bag he carries in so simple a way that it seems almost too good to be true. But the handle holds, no matter what



weight is placed on it if the directions that are perfectly apparent in the four illustrations are carefully followed.

HARNESS A SUNBEAM FOR MAGIC LANTERN

It is not necessary to wait for night to use a magic lantern, nor is it absolutely essential to have a lamp to furnish the light. The sun is one of the very best little illuminators in the business and a beam of sunlight,



properly harnessed, can operate any magic lantern.

The lantern is placed on a table near a window on which the sun is shining. The window shade is pulled down almost to the level of the top of the lantern and the remaining space of the window is covered with heavy paper with a round hole in it that is on a perfect horizontal line with the lens.

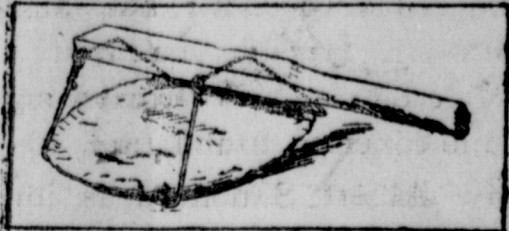
A mirror is then placed outside the window and tilted so that the bright sunlight is directed through the hole in the paper and thus through the lens. That is all that will be found necessary to give the best sort of light for any ordinary lantern slides.

A PIE PAN LIFTER

This Will Save Many a Burn in Busy Kitchens

A mere man has devised a scheme for relieving housewives from the necessity of endangering their hands to the burns and scorns of baking day. His device is nothing less than a handle that can be placed on any pie plate or cake tin that has an edge wide enough to slip a length of wire under.

The handle is an ordinary piece of pine about eighteen inches long—a piece of broom handle will do—and



two wire loops. The ends of the first loop are put through the handle, as shown in the sketch, and the loop is bent so as to stand away from the handle at an angle. The ends that have passed through the handle are twisted into eyelets and into these is hung the second loop, which is allowed to swing freely.

All that is necessary to remove the hot pie plate from the oven is to slip the free swinging loop under the edge of the plate and then turn the handle until the fixed loop is under the edge on the opposite side. Anyone can make the handle in fifteen minutes.

MATCHLESS GAS LIGHTER

Simply Turn the Tap and the Fireworks Start

Gas may be lighted without matches if the ordinary incandescent gas mantle used is converted into a self lighter.

The thing is very simply done. A bit of fire clay or other incombustible material is rolled into a ball about the size of a pea by getting powdered clay and adding a little water. Before the ball has hardened it should be rolled in spongy platinum which comes in a gray powdered form, and, while highly expensive, enough to do the work can be obtained for a small sum. While the pea is still soft, attach it with a fine wire to the top of the incandescent mantle—it might be hung or fastened to the same hook that holds up the mantle.

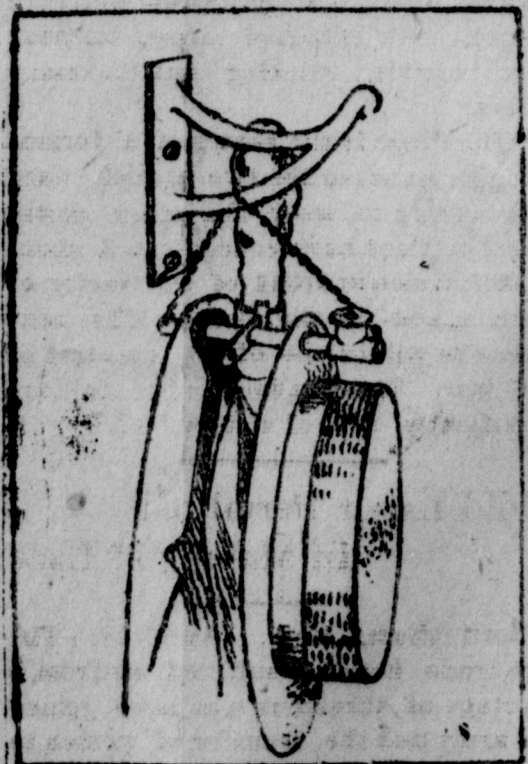
Then turn on the gas and light it with a match. The pea is hardened by the flame. When it becomes thoroughly hardened the gas might be turned on again it is not necessary to use a match, as a chemical action is set up in the platinum by the contact of the gas which heats the platinum immediately to a white heat and immediately to a white heat and causes the burner to ignite.

Natural gas or gas generated from gasoline will not do this.

CANNOT LOSE CLOTHES

Locking Device Designed to Frustrate Hotel Thieves

Necessity is the mother of invention and the inventor of the lock for wearing apparel shown in the accompanying illustration, was probably prompted by an unfortunate experience in a restaurant of some busy city. He probably discovered that some persons keep themselves supplied with hats, umbrellas and coats by picking but the best at hand when they are ready to leave such a public place as



LOCKS HIS CLOTHING ON THE HOOK.

a restaurant. If they make their getaway, it is a simple matter to ask pardon and say mistake.

This device, which has been recently patented in this country by a Canadian, consists of a bar with a removable head and a small chain and a key for locking the two parts together. If it is desired to relieve oneself of hat and coat, the garments are secured on the bar and the chain passed through an opening in the wall back and they can then be left with perfect safety so far as stealing the garments is concerned. This bar is adapted to hold hat, coat and umbrella or cane.

BATH FOR EYEGLASSES

Good Results Follow a Good Soap and Water Wash

Do you ever give your eyeglasses a bath? If not, give them a surprise and see how you like the result.

Dampness and dust form a gummy combination on the eyelashes, and the wearer of glasses or spectacles will find his vision, apparently, much improved by giving them a thorough washing daily with soap and warm water followed by drying and polishing with tissue paper. The gummy substance which collects on the lenses cannot be removed by a mere rubbing with chamois or tissue paper.

An oculist, who knows the importance of well-washed lenses, carries

in his pocket a vial of alcohol, he takes but a moment to moisten the corner of a handkerchief and remove the combination of dust and moisture from his glasses. Another has the case of his glasses interlined with a folded bit of soft tissue, such as is used for copying letters in offices. This is so soft that it is easily folded into the small space of the receptacle. No dust collects on this as it lies on the velvet lining, and the tissue interlining is renewed every day or two.

Quite a Cavalier!

Every seat in the street car was occupied, when a group of women got in. Coming through the car to collect the fares, the conductor noticed a man asleep. Seizing him by the shoulder, he proceeded to shake him back into a state of consciousness.

"Wake up!" shouted the conductor. "That is where you may have another guess, my boy," wakefully responded the passenger. "I was not asleep."

"Not asleep, eh?" returned the conductor, with a dubious expression. "Then, what were you doing with your eyes shut?"

"It was because of the crowded condition of the car," explained the passenger. "I just hate to see women standing up."

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