

## UNION LABELS AND CARDS

There are now 56 labels and 10 cards issued by the following organizations, which have been indorsed by the American Federation of Labor:

### Organizations Using Labels.

American Federation of Labor.	Machine Printers and Color Mixers.
Bakers and Confectioners.	Machinists.
Boilermakers.	Metal Polishers.
Blacksmiths.	Metal Workers, Sheet.
Boot and Shoe Workers.	Molders.
Brewery Workers.	Painters.
Brickmakers.	Paper Box Makers.
Broommakers.	Paper Makers.
Brushmakers.	Piano and Organ Workers.
Carriage and Wagon Workers.	Plate Printers.
Carvers, Wood.	Powder Workers.
Cigarmakers.	Pressmen, Printing.
Cloth Hat and Cap Makers.	Print Cutters.
Coopers.	Rubber Workers.
Engravers, Watch Case.	Sawsmiths.
Flour and Cereal Mill Employees.	Shirt, Waist and Laundry Workers.
Fur Workers.	Stove Mounters.
Garment Workers, United.	Tailors.
Garment Workers, Lady.	Textile Workers.
Glass Bottle Blowers.	Tip Printers.
Glass Workers.	Tobacco Workers.
Glove Workers.	Travelers' Goods and Leather Novelty Workers.
Gold Beaters.	Typographical.
Hatters.	Upholsterers.
Horseshoers.	Weavers, Goring.
Jewelry Workers.	Weavers, Wire.
Lathers.	Wood Workers.
Leather Workers on Horse Goods.	Leather Workers.

### ORGANIZATIONS USING CARDS.

Actors.	Meat Cutters and Butcher Workmen.
Barbers.	Musicians.
Clerks.	Musicians.
Engineers, Steam.	Stage Employes, Theatrical.
Firemen, Stationary.	Teamsters.
Hotel and Restaurant Employees.	

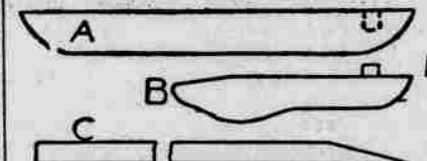
The following crafts and callings are using the American Federation of Labor label: Artificial Limb Makers, Costumers, Badge and Lodge Paraphernalia Workers, Bottlers (Soda, Mineral Water and Liquor), Coffee, Spice and Baking Powder Workers, Cloth Spongers and Refinishers, Carbonic Gas Workers, Cigar Makers' Tools, Nail (Horse Shoe) Workers, Neckwear Cutters and Makers, Oyster Workers, Paint Workers, Photographic Supply Workers, Soap Workers, Soda and Mineral Water Workers, Starch Workers, Suspender Makers, Steel Case Makers.

## INDUSTRY & MECHANICS

### DENTS IN GUN BARRELS.

Shape of Tools Which Will Make the Task of Removing an Easy One.

A good tool for removing dents in gun barrels is made of two pieces of three-fourths-inch half-round iron, one piece (A) five inches long. Put the pieces together and file them down until they are slack at the muzzle of a



TOOLS FOR TREATING DENTED GUN BARREL.

12-ounce gun barrel. Put a 3-16-inch rivet in the longer piece one-half inch from the end, and in the short piece drill a hole in which the rivet will fit loosely to keep the pieces together in the barrel.

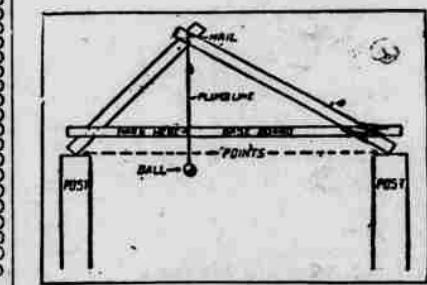
File the 3/4-inch piece oval, as in the sketch, and make a short taper wedge so as not to stick too tight in the spreader. Now place tool in the barrel opposite the dent (short piece next to dent), warm the barrel on a hot iron at the dent, put oil on the wedge and drive with a light hammer. The dent will come out very easily. A good size for the wedge is about 18 inches long and made of a suitable stock.

With a little care and good judgment, writes a correspondent of the American Blacksmith, very bad dents can be removed with this tool.

### A HANDY LEVELING DEVICE

Method by Which One Can Ascertain the Proper Height of Posts in Fencing.

To level up two or more points which are far apart, as posts, etc., without a level, straight edge or



THE LEVELING DEVICE.

square, all that is required is a few nails, three pieces of old board, a piece of cord and a small weight, to be used as a plumb bob, says Thos. McIntyre in Popular Mechanics. Nail the boards together as shown in the illustration at any angle, place the two points of the boards on top of the posts and mark where the line crosses the baseboard. Turn the device about, end for end, and mark the baseboard again. Then raise or lower one of the posts until the plumb line hangs half way between the two marked lines and the posts will be level.

### THE SOUND OF AN ANVIL.

How It May Be Deadened by the Use of Five-Eighth Inch Bolts.

If the anvil block is wider than the base of the anvil, hew it down to fit, then bore a three-quarter inch hole through the block 10 or 12 inches from the top. Make four five-eighths inch bolts with

three-quarter inch eyes and a three-quarter inch bolt long enough to go through the block and take two eye-bolts on each side. Make yokes of five-eighths by one-inch stock and punch or drill five-eighths inch holes in each end. Measure the anvil so as to have the bolts hug it closely; put the three-quarter inch bolt through the blocks, slip on the eye-bolts, put on the clamps and nuts and tighten up. A correspondent of the American Blacksmith who devised this method, says that it will both hold the anvil securely and effectually deaden its ring.

Stone Guide Posts.

'Stone guide-posts are being placed in the deserts of California to direct lost travelers to springs, wells and small streams,' says Popular Mechanics (April). 'Every year large numbers of prospectors risk the dangers of the desert in their eager search for gold. Many of these wander about until they become bewildered, and after searching for water for hours and days perish miserably of thirst. The legislature of California has appropriated \$5,000 for placing the guide-posts and several counties have already undertaken the work. Thousands of posts will be erected during the spring, and it is expected that the number of deaths will be greatly decreased by this means.'

Autos on Warships.

Automobiles will be carried on British battleships and cruisers hereafter. The cars can be handled by the boat derrick easily, and motoring is popular in the service.

A Healthy Business.

Dye-making from coal tar is the healthiest trade in the world, as the tar is a tonic and a tissue builder. The average life of the tar worker is 86 years.

### HUMAN FLIGHT POSSIBLE.

Progress Made in Flying-Ship Construction Prophetic of Early and Complete Solution of Problem.

BY HENRY HELEN CLAYTON.

Of the Blue Hill Observatory. But little more than 100 years ago the first successful trip of man into the blue sky was made by Montgolfier in France, and our own Benjamin Franklin, who witnessed this first flight, or one immediately succeeding it, said: "It is an infant to-day, but it may become a giant."

How soon the brain of men became busy with this thought is shown by a letter to Franklin on May 24, 1784, from Francis Hopkinson, in which he suggested that the balloon be made not spherical, but oblong or spindle shaped and driven by a wheel at the stern.

The first elongated balloon was built by Rufus Porter (of the United States) about 1833. Successive improvements along this line were made by the French engineer Gaffard, by Tissandier, by Renard and Krebs, and finally by Santos Dumont, and by Lebaudie, who have brought the speed to 12 or 14 miles an hour. But even at these speeds the balloon is but the plaything of the wind, which at a height of 500 to 1,000 feet has an average speed of 15 or more miles an hour, so that the air could only be navigated by this means in quiet weather.

Calculation showed that it would not be possible to increase the speed greatly, without bursting the flimsy materials of which the balloons are built, and it is not possible to make these stronger without losing the needed lifting power. Hence, thoughtful men had ceased to look forward with any great hope to success along this line.

On the other hand, an army of eager workers was endeavoring to solve the problem of imitating the bird and driving themselves through the air on lifting planes or wings. Volumes have been written to describe the many attempts along this line. Hundreds of experimenters since the days of Daedalus have attempted flight and failed, but "hope springs eternal" and men "rise on stepping stones of their dead selves to higher things."

Finally amid universal failure signs of success began to appear. Lillenthal showed that it was possible to glide down hill on outstretched wings or planes for many hundreds of feet and land safely. Langley succeeded in flying a model carrying a steam engine for about a mile in free flight. Hiram Maxim built a large flying machine, driven by a wonderfully light engine of 300-horse power, which actually rose into the air for a brief interval lifting a weight of 7,000 pounds, but was speedily wrecked. Langley built a man-lifting machine, which was caught at the moment of launching and wrecked. A wave of skepticism and ridicule swept through the country and many thought that man-flight was an impossible dream.

But already quietly at work were two young manufacturers, the Wright brothers of Ohio, who, following in the footsteps of Lillenthal of Germany and Chanute and Herring of our own country, were learning to glide down hill in a properly constructed machine, to balance in the air and to land safely. Ingenious improvements were devised and introduced and the machine was ready for the trial of a motor. Profiting by the accumulated experience of those who had previously tried and by the very light motors which have been developed for automobiles and boats, an engine for driving their machine was built and a successful but brief preliminary flight was made in December, 1903.

Brief though it was, the possibility of human flight had been demonstrated, and they set about perfecting the machine. By the autumn of 1905 the machine was so far perfected that there began over the prairies near Dayton, O., a remarkable series of flights. On September 26 one of the Wrights made a flight of a little over 11 miles. On September 30 this was increased to 12 1/2 miles, on October 3 to 15 1/2 miles, and on the 5th to 24 1/2 miles, during which flights the operator remained in the air 38 minutes. The flights were made in circles or figure eights, returning to the starting point, and were at a speed of about 38 miles an hour.

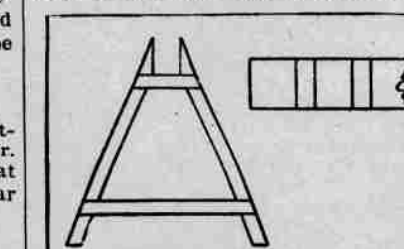
After centuries of effort, successful flight is at last accomplished. After hundreds of failures, the loss of many lives and of many thousands of dollars, one of the greatest achievements in history, the conquest of the air, has auspiciously begun.

Henry Helen Clayton

### PORTABLE SAW HORSES.

Convenient Type of Device for Carpenter—Can Be Taken Apart for Moving.

In moving from one job to another the carpenter will find portable saw horses a great convenience. The usual form of saw horse is very awkward to



PLAN OF PORTABLE SAW HORSE. stow away or to move. The sketch shows the construction of a portable horse recommended by a correspondent of the Practical Carpenter.

## Three Good Rules to Follow

First When Traveling between Omaha and Chicago, use The Overland Limited leaving at 8:35 p. m. from Union Station.  
Second. If you cannot use The Overland Limited, use The Eastern Express leaving at 5:45 p. m.  
Third. If you cannot use either of the above, take The Chicago Express leaving at 7:55 a. m.

In these three trains the

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It is insurance against sweat shop and tenement goods, and against disease. . .

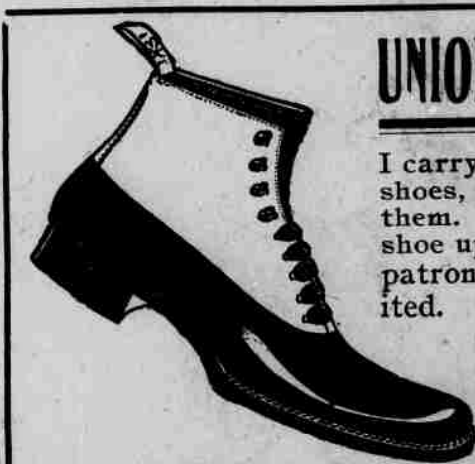
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