

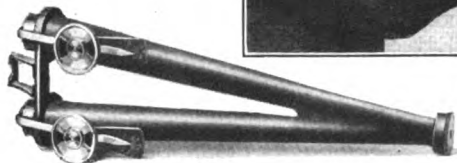
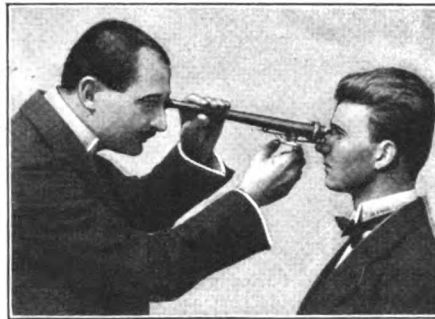
## How Uncle Sam Tests Master Scales

**T**O TEST with scientific accuracy the master scales used by railroads, Uncle Sam now employs carefully standardized weights which are shipped about the country on flat cars. Since each railroad tests

all the scales on its line with its own master scale, this new method of government weight tests assures national uniformity of weight measurements. The photograph shows a master scale being tested.

## New Optical Instrument to Make Glasses Fit

**T**O DETERMINE the exact distance between the eye centers in measuring the face for glasses, a German optician has invented a device which, he claims, insures that the axes of the glass lenses will be in perfect line with the eyes. The examiner observes the two eyes through two connected tubes. Two pointers are moved across the field of vision until they bisect the eyeball. Measurements are then taken.



Measuring a patient's eyes with the instrument shown at the left

## Army Develops Talking Gas Mask



Two types of the diaphragm gas mask—with self contained canister (above) and with canister tube (at right)

**A** NEW gas mask recently invented by an officer of the Chemical Warfare Service, U. S. Army, is said to overcome the difficulty of talking while the mask is in place.

A diaphragm of tracing cloth which cannot be penetrated by gases is held in place in front of the mouth by an aluminum disk. The vibration of the disk caused by the speaker's voice transmits the sound almost as clearly as though no mask were worn.

In addition to this advantage, the mask is supplied with chemicals which makes it valuable as a resistant to other than war gases. Wearing this mask, a fireman need not fear deadly carbon monoxide, ammonia and other fumes.



## Many-Hook Device Saves Space in Closets

**C**OMBINING many hooks in one, the ingenious metal device shown at the right has been designed to save space in small closets. Each hook carries a clothes hanger. In addition, it will make an ideal rack for knives and brushes in the kitchen. It also can be utilized in the garage as a rack for tools.



## Pistol Oil Can Keeps the Hands Clean



**A**NYONE who has tried to oil the family car or the lawn mower without getting daubed with oil will appreciate a new oil can that works like a pistol.

The can is grasped in the hand like a revolver, the nozzle is placed against the oil cup or nipple, and a push sends the oil into the machine.

## New Iodine Antiseptic Pen Useful for First Aid

**A**N IODINE antiseptic pen is one of the valuable new additions to first aid equipment. The pen consists of two glass tubes, a rubber stopper and a distributing brush. Iodine is placed in the bottom tube. The rubber stopper, into which the pen is fitted, is then inserted. The iodine flows from the pen through a wick or brush, which may be cut off after being used leaving a fresh end.



A girl scout using antiseptic pen in first aid to injured comrade

