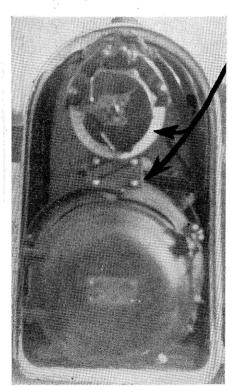
## KINKS

## Controller Adjuster

J. L. BRYANT Los Angeles, Cal.

THE accompanying illustration represents a device for adjusting G.R.S. Model-2A semaphore signal mechanism circuit controllers and contacts, where there are holes provided for mounting Veeder operation counters on the mechanism. The assembly of this adjuster includes four short 6/32-in. machine screws with two nuts each, one 3½-in. protractor, three small rivets, and a small piece of No.



Adjuster applied to 2A mechanism

20 gage sheet metal. The 6/32-in. machine screws are used to attach the device to the mechanism, which places the scale in position below the circuit controller drum shaft and castellated nut. The important factor in making this device is to get the would-be center of the protractor in line with the center point of the circuit controller shaft.

By placing the indicator pointer in the vertical position below the castellated nut, and setting at 0 deg. on the protractor scale, the various positions of the circuit controller can be checked or adjusted, as required by the circuit wiring diagram of the mechanism. By applying power in successive steps at 0, 40, and 45 deg., it can be determined whether or not the controller and contacts are functioning properly, but to make any adjustments, it is

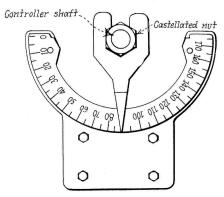


Diagram showing construction of circuit controller adjuster

better to operate the mechanism by hand. The adjuster that I made and am using has proved a quick means of determining the positions of the mechanism when making torque tests.

## **Combination Wrench**

JOHN LOOS

Signal Maintainer, Chicago, Burlington & Quincy, Lincoln, Nebr.

THE accompanying illustration represents a combined insulated fuse puller and storage battery terminal wrench which I made from a fibre end post.

On one end is a pair of semicircular jaws which will spread easily over a half-inch cartridge fuse. The metal slide is then moved to the neck of the jaws, locking them on the fuse. The fuse can then be pulled from its clips and another one replaced without

danger of an electric shock to the maintainer or damage to the fuse.

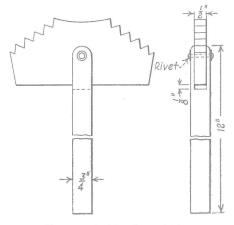
The opening at the other end is a hexagonal closed-end wrench which fits a 34-in. nut used on storage batteries. The use of this fibre wrench prevents the possibility of accidently short circuiting the cell, as is often done when a metal wrench is used. This tool is a compact, handy, and efficient one.

## Signal Lens Cleaner

IRWIN W. CAMPBELL

Signal Maintainer, Independent Subway System, New York, N.Y.

Accompanying is a sketch of a device I made recently for cleaning the inside of signal lenses. The device is made of ½-in. hard wood, and is fitted with a round handle about 12 in. long. It is fastened in a slot in the handle by means of a rivet, leaving a clearance space of about ½ in. between the device and the bottom of the slot, to permit flexibility. In use, a small



Front and side view of the signal lens cleaner

piece of chamois skin or cloth is placed over the end, pressed against the lens, and rotated a few times by the handle. If made of a sturdier material such as fiber or bakelite, the life of the tool would be considerably increased. A great saving of time and labor are obtained as a result of using this tool when cleaning signal lenses.

Combined battery wrench and fuse puller

