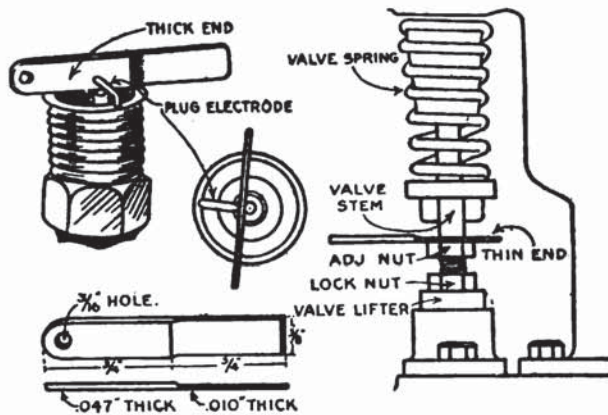


For Practical Workers



A Useful Gage for Motorists

A VERY simple but useful attachment for the automobilist's key-ring is shown in the accompanying illustration. It can be made of spring steel



The little piece of steel illustrated can be used in the ways shown and in many others

or hard brass, steel being preferred, however, since it can be hardened and tempered. It is made from a piece of stock about .050-in. thick, 1½-ins. long and 3/8-in. wide. Before hardening, a 3/16-inch hole is drilled in the end and the corners rounded off to make it easily inserted on a key-ring. The piece is then ground down to about .046 in. to .047-in. thick for about half its length, and to about .010-in. thick for the remainder.

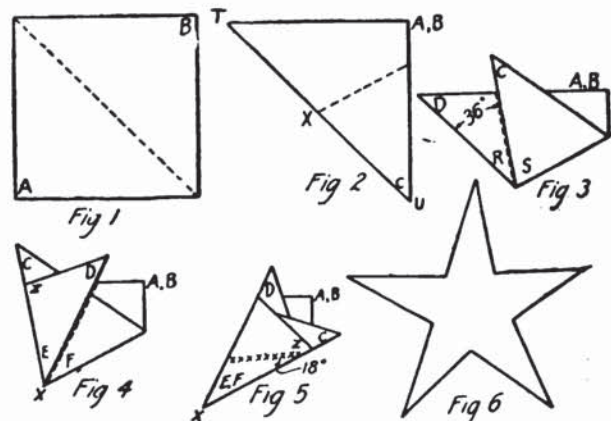
The thick end will be found valuable for setting the gap between the electrodes of the ignition spark-plug; the thin end will be useful when adjusting the clearance between the valve stems and adjusting nuts on valve-lift plungers. The gage can be easily made and will be found very useful whenever such a tool is needed.—VICTOR PAGE.

How Betsy Ross Made a Five-pointed Star with One Cut

WHEN George Washington and two other Revolutionary leaders called on Betsy Ross to bestow upon her the honor of making the first flag, they expressed a desire to use a star of five points. She immediately folded up a bit of paper and, with one cut, formed a perfect five-pointed star. This is the way to do it:

Fold a perfect paper square diagonally, as in Fig. 1. Then make another fold, as in Fig. 2, *X* being the middle of the line *TU*. The fold must give an angle *R*, Fig. 3, of about 36 deg. This is approximately half the angle *S*. A little practice will enable anyone to make this fold.

The point *D* of Fig. 3 is folded over as in Fig. 4, angles *E* and *F* being equal. The two points *A* and *B*, which are together, are then folded over, as in Fig. 5. If the edges are all together, a diagonal cut, shown in Fig. 5, will make a perfect star, having five points.



Making a Five-pointed Star with One Cut

Fig. 1. Fold in square of paper. Fig. 2. *X*, middle of *TU*. Fig. 3. Angle *R* is half angle *S*. Fig. 4. Angle *E* is equal to angle *F*. Fig. 5. Ready to cut. Fig. 6. Completed star