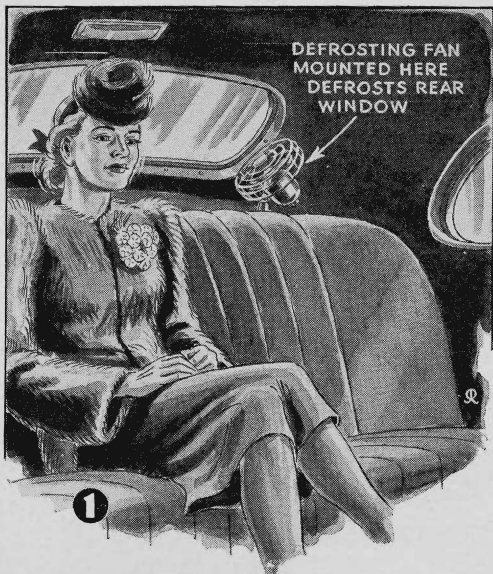
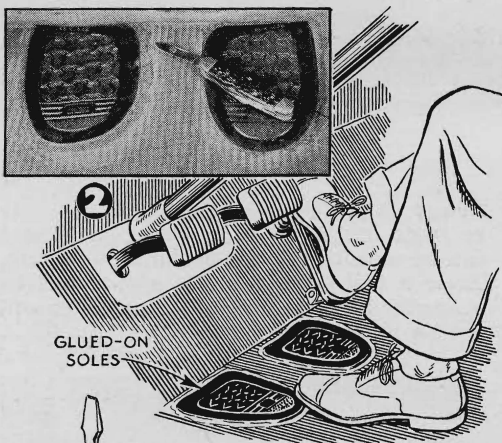


# PRACTICAL HINTS



**1 AS A SAFETY FACTOR** for winter driving, as well as a convenience, an electric defroster fan mounted on the deck space behind the rear seat of a car and aimed at the rear window is as effective as one used on the windshield. It keeps fog and frost from forming on the inside, and melts snow and sleet that gathers on the outside while parked or driving. It may be easily wired from the ammeter and ground through a dashboard switch.—W. P. H.



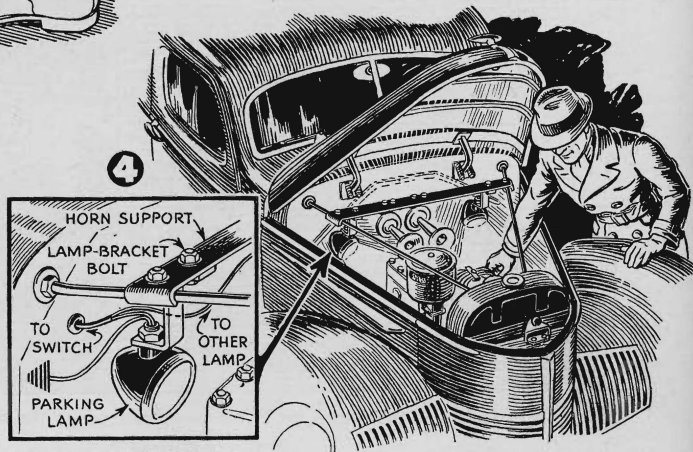
**2 FLOOR-MAT PROTECTORS** consisting of a pair of five-and-dime-store shoe soles of the stick-on variety are easy to attach underneath the brake and clutch pedals of your car. They are usually available with a supply of glue and a scraper, and will protect the floor mat from the scuffing of your heels.—A. O. S.

**3 A HANDY WRENCH** for loosening or tightening the terminal nuts found on most spark plugs can be made by simply drilling a hole slightly smaller than the outside diameter of the nuts in the handle end of a screw driver. The hard wood wrench will loosen tight nuts without damage.—W. C. W.

**4 TROUBLE LAMPS** mounted under the hood and connected to a dashboard switch are a boon when you have engine trouble on country or unlighted roads at night. I purchased two old cowl lamps and fittings from a junk dealer and connected them as shown. In some cars it may be found easier to attach them directly to the fire wall or the radiator tie rods.—E. F., Jr.



HOLE,  $\frac{3}{8}$ " DEEP, SERVES AS SOCKET WRENCH FOR SPARK-PLUG TERMINALS



# FOR CAR OWNERS



**5** A FAN-SHAPED SPRAY of water for washing cars is obtained without the necessity of holding a thumb over the end of a hose by means of an inexpensive device. This consists of a ten-cent hose coupling, with the inner sleeve squeezed flat in a vise. The coupling is then screwed on the end of the hose like a nozzle when needed to deliver a strong, rinsing stream of water to the work.—E. M.

**6** QUICKLY SHOWING THE OIL LEVEL, a white-enamelled measuring rod or dip stick is much easier to read, even if the oil is cloudy from long use. The rod should first be cleaned and then given two coats of high-quality enamel. Brush the enamel only up to the "full" mark so that you can still tell when your crankcase is filled.—E. H.

**7** TONING DOWN YOUR HORN for city driving is possible on many cars by placing a rheostat in the horn circuit and mounting it on a convenient spot under the dash. If the horn operates through a relay, be sure and connect the rheostat into the relay circuit, not into that of the horn button.—P. M.

**8** FREEDOM FROM GLARE while working beneath a car in a greasing pit or under a car hoist at night is obtained by replacing the unshielded wire guard of your trouble lamp with a metal cone as shown. With a little ingenuity, you can rig up the outfit with a piece of sheet iron, a length of wire, and a hook shaped as in the sketch for attaching the device to the underside of a car wherever it is needed.—L. B. R.

