2. Press the bearing out of the end bracket, and remove and clean the corrugated washer and felt ring.

3. Before fitting the replacement bearing, see that it is clean and pack it with high melting point grease.

4. Place the felt ring and corrugated washer into the bearing housing in the end bracket.

5. Locate the bearing in the housing and press it home.

6. Fit the bearing retaining plate by inserting new rivets from the pulley side of the bracket, and opening the rivets by means of a punch to secure the plate rigidly in position.

To reassemble

1. Fit the drive end bracket to the armature shaft. The inner journal of the bearing must be supported by a tube approximately 4 in. (10 cm.) long, $\frac{1}{8}$ in. (3 mm.) thick, and $\frac{5}{8}$ in. (1·6 cm.) internal diameter. Do not use the drive end bracket as a support for the bearing whilst fitting the armature.

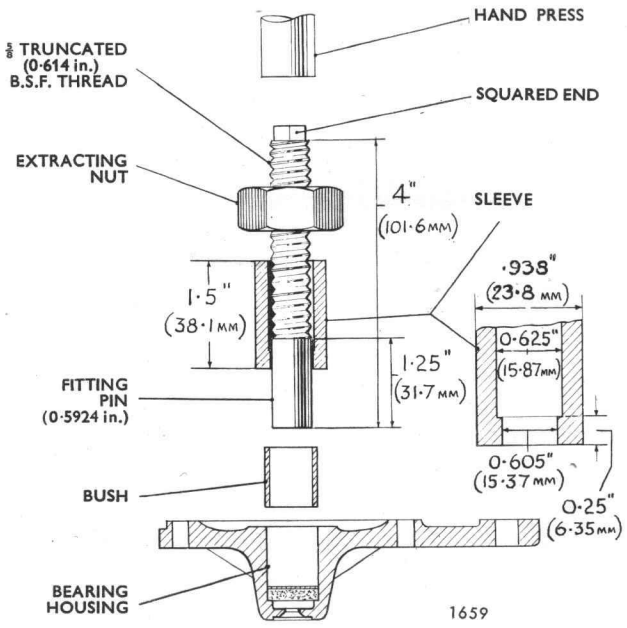

Fig. 11. *Fitting porous bronze brush*

2. Fit the yoke to the drive end bracket.

3. Push the brushes into the brush boxes and secure them in that position by positioning each brush spring against the side of its brush.

4. Fit the fibre thrust washer(s) and commutator end bracket to the yoke so that the dowel on the bracket locates with the groove in the yoke. Take care not to trap the brush connectors.

5. Insert a thin screwdriver through the ventilator holes adjacent to the brush boxes and gently lever the spring arms until the brushes locate correctly on the commutator (see "B", Fig. 4).

6. Refit the two through bolts, pulley spacer and shaft key.

7. Refit the driving pulley.

8. After reassembling lubricate the commutator end bearing.

GENERATOR RE-POLARIZATION

A replacement generator (dynamo) of the type described in this Section is suitable for use on either positive or negative earth systems, provided it is polarized to suit the vehicle's electrical system after fitting.

To do this, fit the generator to the vehicle but do not at this stage connect the cables to the "D" and "F" terminals.

Determine which battery terminal is earthed on the vehicle and then temporarily connect a jumper lead to the battery positive terminal (for negative earth systems) or negative terminal (for positive earth systems).

Flick the other end of the jumper lead several times against terminal "F" this serves to re-polarize the generator.

The temporary connection can now be removed and the original cables connected to terminals "D" and "F".