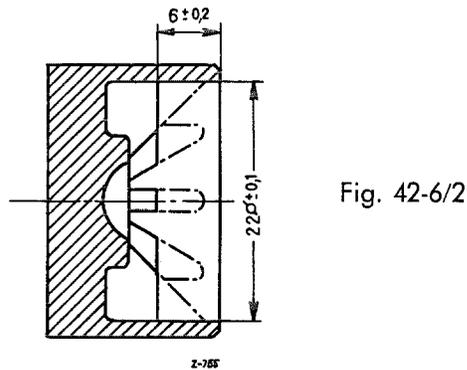


When complaints are received about brake grabbing, the spring-loaded pins can be subsequently installed on older cars of Models 190 SL, 219, and 220 S (see Section D).

### D. Subsequent Installation of Spring-Loaded Pins

For subsequent installation the spring-loaded pins are supplied together with the appropriate brake cylinder pistons  $1\frac{5}{16}$ "  $\phi$  with Part No. 180 420 00 74. If older cars are fitted with wheel brake cylinders with a piston diameter of 1", the pistons must be re-machined as shown in Fig. 42-6/2.



#### Installation Hints

- a) When installing the spring-loaded pins, pay attention to the required number and the correct positioning of the cup springs. Mount 4 cup springs on each spring-loaded pin in such a way that one pair of cup springs is supported by the other pair, so that the desired spring action is obtained (see Fig. 42-6/1).

**Note:** In order to reduce pedal travel, recent cars are fitted with 15 mm cup springs in place of the 1<sup>st</sup> version 20 mm diameter springs.

- b) After installing the spring-loaded pins, depress the brake pedal several times with the car stationary. Then take the car on the road to warm up the brakes, so that the brake shoes are adjusted properly and unnecessary pedal travel is prevented. As a result of the resilient spring-loaded pins, pedal travel is automatically somewhat increased. In order to ensure that this increase remains within normal limits particular attention should be paid to a proper and satisfactory wear pattern of the brake linings. Furthermore the whole brake system must be properly bled and the automatic adjustment must have proper clearance.

- c) Installation of spring-loaded pins does not automatically prevent brake grabbing if this should be due to other causes; in such cases check the brake system in order to trace the fault, in particular check the rear axle suspension, the uniform efficacy of the shock absorbers, check the brake drums for out-of-roundness, for eccentricity, and for variation in wall thickness.