C. W. BARNABY.

MANUFACTURE OF MULTIPLE BEARINGS.

APPLICATION FILED JAN. 29, 1919.

1,341,205. **Patented May 25, 1920.**



Fig. 1.

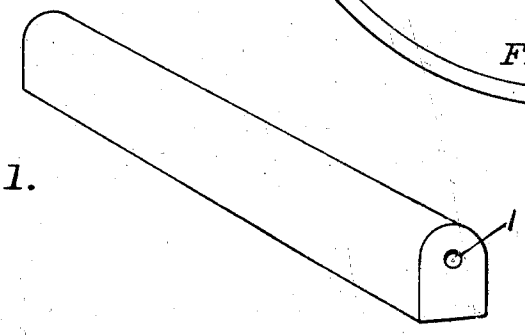


Fig. 2.

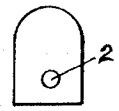


Fig. 3.



Fig. 4.



Fig. 5.

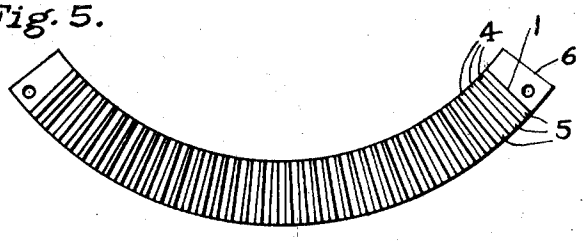


Fig. 7.

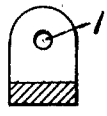


Fig. 6.

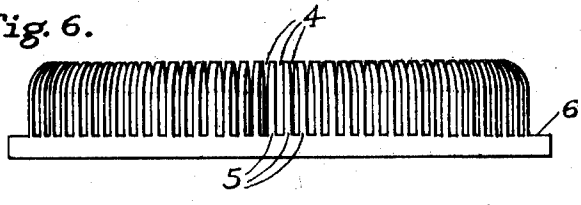


Fig. 8.

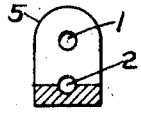
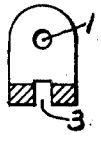


Fig. 9.



INVENTOR.

Charles W. Barnaby.

UNITED STATES PATENT OFFICE.

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MANUFACTURE OF MULTIPLE BEARINGS.

1,341,205. Specification of Letters Patent. Patented May 25, 1920.

Original application filed October 28, 1916, Serial No. 128,248. Divided and this application filed January 29, 1919. Serial No. 273,866.

To all whom it may concern:

Be it known that I, CHARLES W. BARNABY, a citizen of the United States, and a resident of the borough of Richmond, county of Richmond, city and State of New York, have invented certain new and useful Improvements in the manufacture of Multiple Bearings, of which the following is a specification.

My invention relates to the manufacture of multiple bearings in which several bearings are arranged along a curved line, as in the type-bar bearings for typewriters and the like and the objects of my invention are to provide a better, cheaper and more easily manufactured form of bearing. The present application constitutes a divisional application of my copending application, Serial No. 128,248, type-bar actions, filed October 28, 1916.

Figure 1 shows a straight blank, prepared in accordance with my invention.

Fig. 2 is an end view of a slightly modified application of my invention to a blank similar to that shown in Fig. 1.

Fig. 3 is an end view of still another modification of a blank made in accordance with my invention.

Fig. 4 is a plan view of blank similar to Fig. 1 after same has been bent into the required curved form, a part of one end being cut away to show a section through a lengthwise perforation.

Fig. 5 is a top view and Fig. 6 a side view of Fig. 4 after same has been slotted, transversely, through the greater part of its depth.

Fig. 7 is a cross section through the base of Figs. 5 and 6 when a blank similar to Fig. 1 is used.

Fig. 8 is a similar cross section when the blank is of the modified form shown in Fig. 2.

Fig. 9 is a similar cross section when the blank is of the modified form shown in Fig. 3, and

Fig. 10 is a pivot pin of suitable curved form to be inserted the full length of the bearing block, Fig. 5.

In the application of my invention to the manufacture of multiple bearings arranged along a curved line I perform certain operations upon a straight blank, bend the blank to the desired curvature and then perform certain other operations.

In the carrying out of these operations a straight blank is provided of the required sectional form, similar to that shown in Fig. 1. The blank is then pierced, endwise, by one or more holes such as 1 and 2, as required, and if slots similar to 3 are required the same are cut, longitudinally, in the straight blank. Through the application of suitable rolls or press dies the blank is given the required curved form as illustrated by Fig. 4. Radial slots 4, Figs. 5 and 6, of the required number, width and depth are then machined transversely across the curved blank, producing a curved multiple bearing block such as illustrated by Figs. 5 and 6. Lobes 5, Figs. 5, 6 and 8, pierced with holes 1, are left standing each side of slots 4 to give side and pivot support to such members, as type-bars for typewriting machines, as it is desired to pivot in the bearings. The curved bearing pin, Fig. 10, is inserted through lobe pivot holes 1, Fig. 8, and through suitable pivot holes provided in the pivoted members whereby all of said members are properly pivoted in all of the slots of the multiple bearing block.

This method of manufacture makes it easy to provide any desired contour of cross section for the blank in the straight form, to pierce the blank with a straight pivot hole 1, to provide pockets in the bottom of the bearing slots 4 by drilling a straight hole 2 throughout the length of the blank, to provide openings through the base of each bearing slot 4 by cutting a groove 3 throughout the length of the straight blank, or to perform other operations affecting the cross section contour of the blank and providing openings in the walls of bearing slots 4 such as would be difficult to provide in a bearing block which was of curved form from its origin to its finish.

I claim:

The method of constructing a curved multiple bearing which consists of the preparation of a straight blank provided with a straight longitudinal duct, bending said blank, and transversely slotting said blank across said duct.

CHARLES W. BARNABY.