N. H. MEDBERY. BUSHING FOR BUNG HOLES.

(Application filed July 6, 1901.)

(No Model.) Fig. 3. Fig 6 Inventor. Witnesses.

United States Patent Office.

NELSON H. MEDBERY, OF PROVIDENCE, RHODE ISLAND.

BUSHING FOR BUNG-HOLES.

SPECIFICATION forming part of Letters Patent No. 694,769, dated March 4, 1902.

Application filed July 6, 1901. Serial No. 67,336. (No model.)

To all whom it may concern:

Be it known that I, Nelson H. Medbery, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Bushings for Bung-Holes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to the class of bushings made for bung-holes of barrels or the like intended to be permanently secured in the bung-hole to provide a solid, preferably a metal, bushing for a wooden bung. It is fully described and illustrated in this specification

and the annexed drawings.

Figure 1 is a perspective view of the split 20 ring first inserted in the bung-hole. Fig. 2 represents a section of the barrel each side of the bung-hole and the split ring inserted in the bung-hole. Fig. 3 is a top view of the tool used to hold the split ring while it is be-25 ing spread to fasten it in the bung-hole. Fig. 4 represents the split ring in place in the bung-hole, supported by the holder seen in Fig. 3, and the ring-spreading tool also in the ring. Fig. 5 represents the same parts as Fig. 30 4 with the ring-spreader screwed clear down and the projections on the split ring forced into the sides of the bung-hole. Fig. 6 is a top view of the bushing. Fig. 7 represents the split ring in the bung-hole with the holder 35 and spreading-tool removed and the bushing screwed down firmly in place ready to receive a bung.

The construction and application of the de-

vices are as follows:

B, made tapering downward and having a screw-thread C made on its inside. Slits D D are made in the lower edge of the ring B, extending upward some ways into the ring, to allow the lower part of the ring to be expanded, and projections N N are made on the lower edge outside of the ring to enter the sides of the bung-hole J when the ring is expanded and hold it fast in place.

The spreading-tool A, which has a conical

head with a screw-thread made on it and a T-handle F on its upper end, is then inserted in the ring B, as seen in Fig. 4. The handle F is then taken off, and the holder, which consists of a ring S, having a thread on it fitting 55 into the top of the ring B, and a handle R to hold it by, (see Fig. 3,) is then screwed down into the top of the ring B to hold it while the spreading-tool A is screwed down by the handle F until it has spread the split part of the 60 ring out, as seen in Fig. 5, in which the projections N N are shown as being embedded in the sides of the bung-hole. The holder E and spreading-tool A are then removed and the bushing H, which consist of a ring having a 65 screw-thread on its outside and a horizontal flange M on its upper edge and a taper hole H through it suitable for a bung, (see Figs. 6 and 7,) is then entered and screwed into the split ring until the flange rests solid on the 70 surface of the barrel K. This makes a bushing firmly clenched to the wood around the bung-hole and that will last in good order as long as the barrel it is in.

Having thus described my improvements, 75 what I claim as new, and desire to secure by

Letters Patent, is—

1. In a bung-hole bushing a tubular member made tapering both interiorly and exteriorly and having a screw-thread in its inside 80 and projections on its outside, with slots in its smaller end allowing the lower half of said tubular member to expand to fill the bunghole, in combination with a member adapted to receive a bung, substantially as described. 85

2. The combination in a bung-hole bushing of a partially-split ring made tapering interiorly and exteriorly and having projections on its outer side and a screw-thread on its inside, an exteriorly-screw-threaded collar fit- 90 ting into said ring and having a flange extending out around one end to bear on the outside of the barrel, substantially as described.

In testimony whereof I have hereunto set my hand this 3d day of July, A. D. 1901.

NELSON H. MEDBERY.

In presence of—
ARTHUR, W. JOYCE,
HOWARD E. BARLOW.