

H. BUMP & A. H. RITCHIE.

Improvement in Tumblers for Polishing Forks, &c.

No. 129,522.

Fig. 1

Patented July 16, 1872.

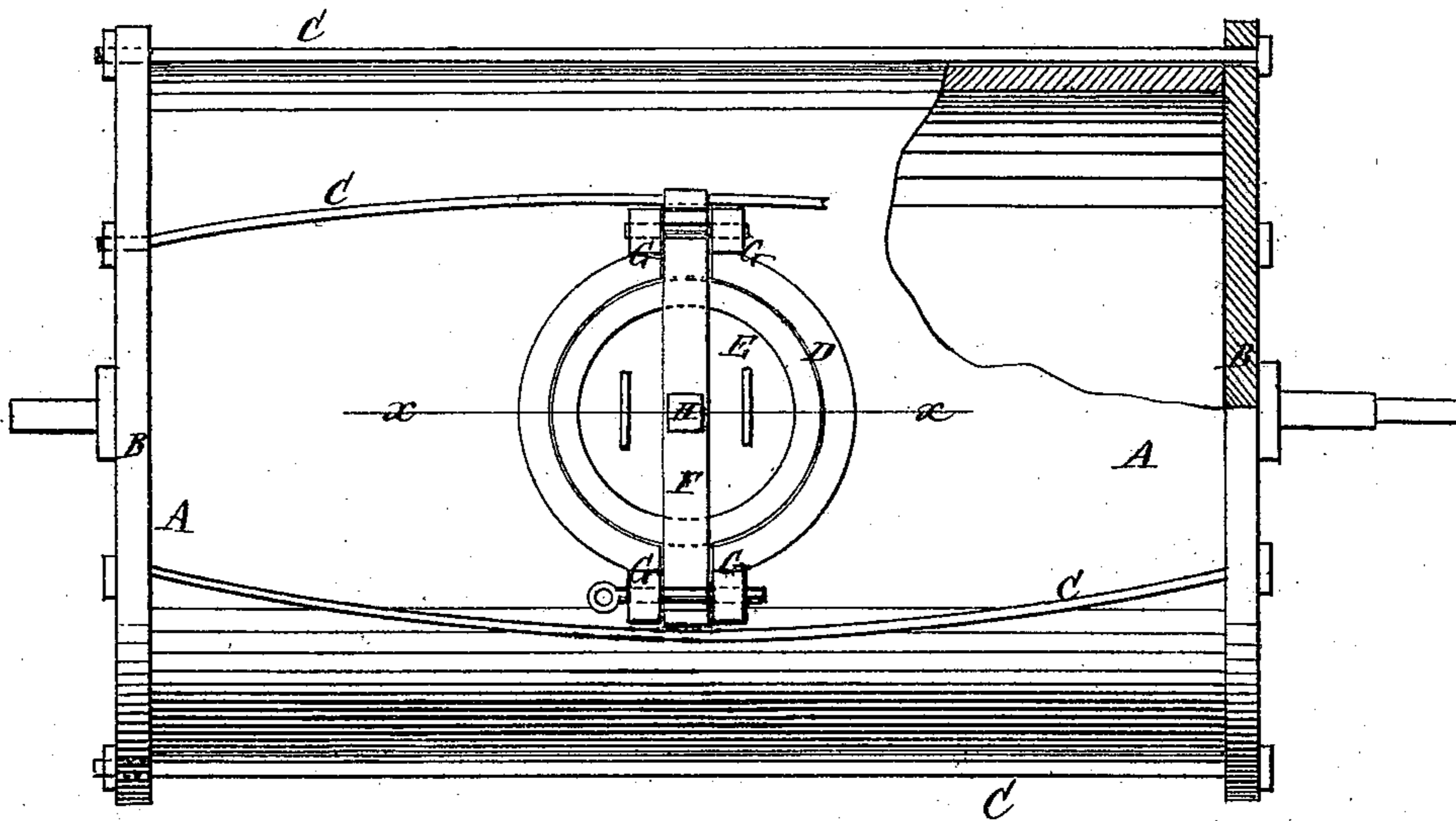
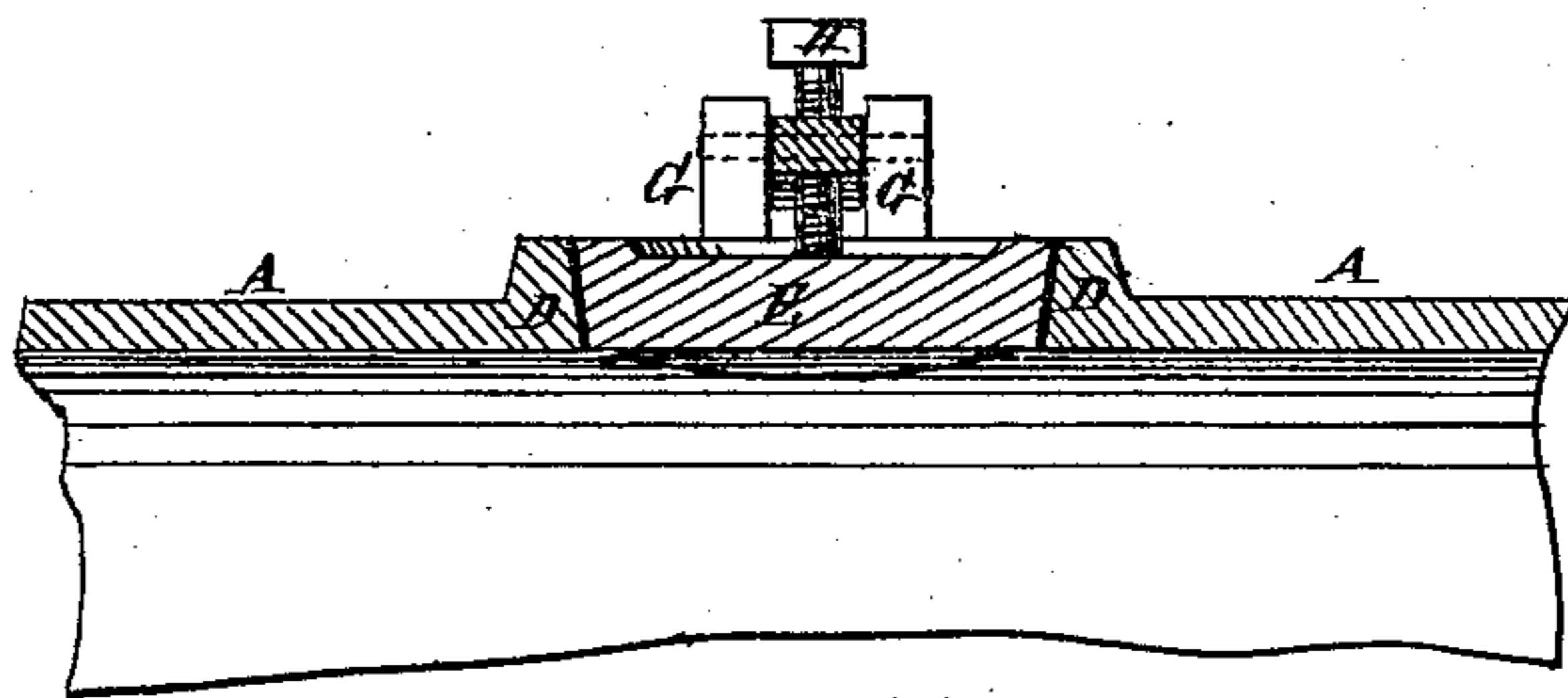


Fig. 2



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IMPROVEMENT IN TUMBLERS FOR POLISHING FORKS, &c.

Specification forming part of Letters Patent No. 129,522, dated July 16, 1872.

Specification describing a new and useful Improvement in Tumbler for Polishing Forks, &c., invented by HILON BUMP, of Wallingford, in the county of Rutland and State of Vermont, and ALEXANDER H. RITCHIE, of the city, county, and State of New York.

Figure 1 is a top view of our improved tumbler, part being broken away to show the construction. Fig. 2 is a detail sectional view of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved tumbler for polishing forks, &c., which shall be so constructed as to furnish no cracks or crevices for the points of the forks to catch in and be broken, thus protecting the manufacturer against the large loss from breakage in polishing in tumblers constructed in the ordinary manner; and it consists in the construction of various parts of the tumbler, as hereinafter more fully described.

A is the barrel of the tumbler, which is about three feet in diameter and four feet long. The barrel A is secured to the heads B by rods C, which pass along the outer sides of the barrel A and through the heads B. The inner surface of the part of the heads B, upon which the edges of the barrel A rest, are ground, and the said edges are ground to their seats so as to give a close joint, into which the points of the forks cannot enter. In case the body or middle part of the heads B is made thicker than the edge parts, upon which are formed the seats for the ends of the barrel A, the shoulder is made inclined, so that there can be no joint or crack for the points of the forks to enter. D is the man-hole, which is made circular, and into which the stopper E is ground, so as to form a close joint having no holes or

cracks into which the points of the forks can enter and be broken. The cover or stopper E is secured in place by a cross-bar, F, the ends of which are placed between studs G attached to the barrel A, and beneath pins passing through the said studs, and which is tightened by a set-screw, H, passing through the center of the said cross-bar F, and the forward end of which rests against the center of the cover E. The inner side of the cover E may be so formed as to correspond with the inner surface of the barrel A; but this is not essential.

By this construction no packing is required about the man-hole or heads to make the tumbler water-tight, and there will be no seams or cracks for the points of the forks to catch into and be broken.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. An improved tumbler in which the ends of the barrel A are ground to their seats upon the heads B so as to form a close joint, without openings or cracks for the points of the forks to enter, substantially as herein shown and described.

2. An improved tumbler in which the man-hole cover E is ground into the man-hole D so as to form a close joint, without openings or cracks for the points of the forks to enter, substantially as herein shown and described.

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