P. DILLON & F. TRACY.

Sand-Paper Rolls.

No. 209,871. Patented Nov. 12, 1878.

Fig. 1.

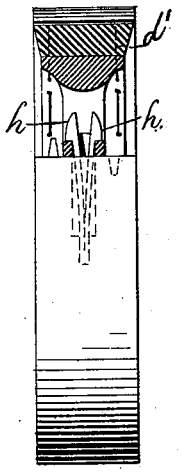


Fig. 2.

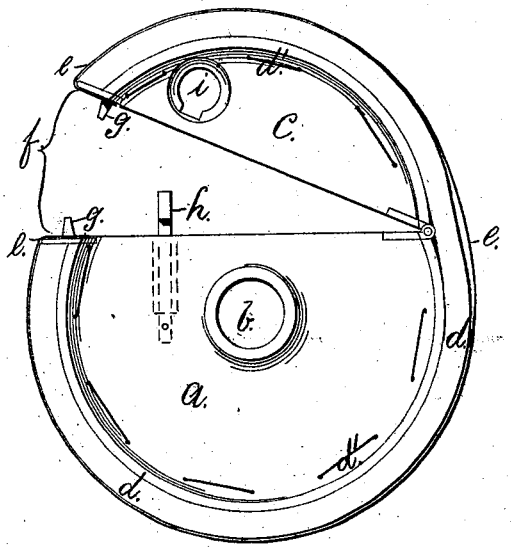


Fig. 4.

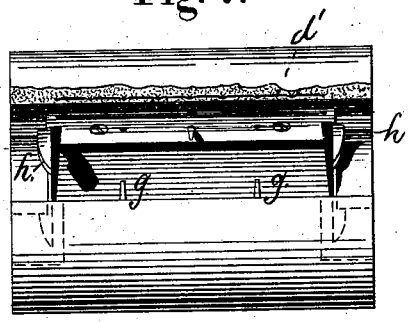
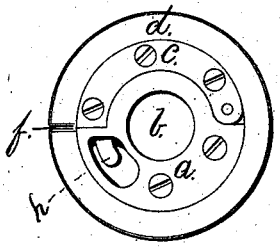


Fig. 3.



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UNITED STATES PATENT OFFICE.

PATRICK DILLON AND FRANK TRACY, OF MILFORD, MASSACHUSETTS.

IMPROVEMENT IN SAND-PAPER ROLLS.

Specification forming part of Letters Patent No. **209,871**, dated November 12, 1878; application filed August 5, 1878.

To all whom it may concern:

Be it known that we, PATRICK DILLON and FRANK TRACY, both of Milford, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Sandpapering-Machines; and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a side view, partly in section, so as to show the spring-latch by which the hinged portion is secured. Fig. 2 is an end view of disk shown in Fig. 1, the hinged portion being shown raised. Fig. 3 is an end view of our improved sand-paper cylinder, and Fig. 4 is a side view, partly in section, of the same.

This invention has reference to improvements in disks or cylinders for securing sand-paper, emery-paper, or cloth or other similar material used in grinding or polishing; and consists in the peculiar and novel arrangement of the parts by which the paper or cloth is secured and the parts locked and unlocked, as will be more fully set forth hereinafter, and pointed out in the claims.

In the drawings, *a* is the fixed part of a disk or cylinder, which is secured to the shaft, and is therefore provided with the central hole *b*.

C is the hinged portion of the disk or cylinder. *d* is an elastic belt, secured to the disk or cylinder by lacings *d'*. *e* is the sand-paper or other covering, which is held by turning the ends inward over the edges *f*. These edges are provided with pins *g*, which pass into holes on the opposite edge, and thus firmly hold the ends.

By means of the elastic band *d* and the hinged portion C, the covering material may be secured when the disk or cylinder is in the position shown in Fig. 2, and when the two parts are brought together will be firmly stretched over the elastic band, which, yielding some, gives a firm bearing to the sand-paper.

As in practical use the sand-paper or other material used soon wears out, it is of the highest importance to replace the worn strip with a new one in the shortest possible time, and to facilitate this the hinged portion of the disk or cylinder is secured to the fixed portion by the spring-latches *h h*, which enter a slot and pass over a projecting shoulder within the beveled hole *i*.

By this arrangement the disk or cylinder can be quickly secured after the sand-paper is bent over the jaws or edges *f*, and held by the pins *g*, and the hinged piece C can be as readily released by pressing on the spring-latches *h h*. As no tools are required, the operation can be performed rapidly and new sand-paper secured without much loss of time.

The elastic band *d* can also be renewed when worn, and when sewed or laced to the disk will be held firmly, and allow the sand-paper or other material to yield sufficiently to adjust itself to the articles to be ground or polished.

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

A sand-paper roll or disk composed of two sections, A and C, and the elastic cushion *d*, when one of the sections is greater than the other, so that the greater may receive the axis *b*, one of the parts having the spring-catch *h* and the other the catch and finger-orifice *i*, and when the cushion is wire-stitched to the sections, as and for the purpose set forth.

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