

(No Model.)

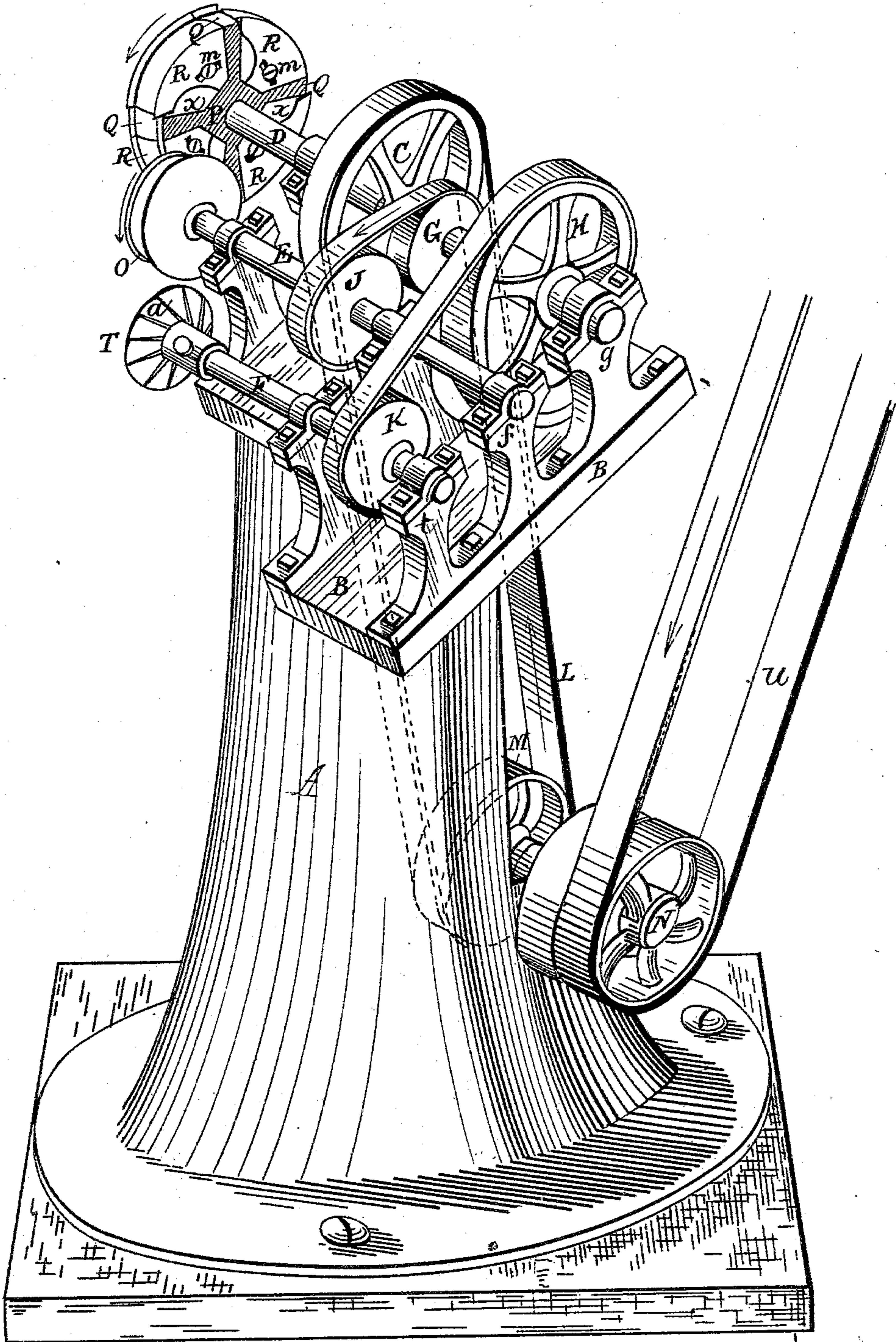
2 Sheets—Sheet 1.

H. F. ROONEY.

EDGE TRIMMER FOR BOOTS AND SHOES.

No. 280,958.

Patented July 10, 1883.



Witnesses:  
H. E. Pennick  
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Fig. 1.

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(No Model.)

2 Sheets—Sheet 2.

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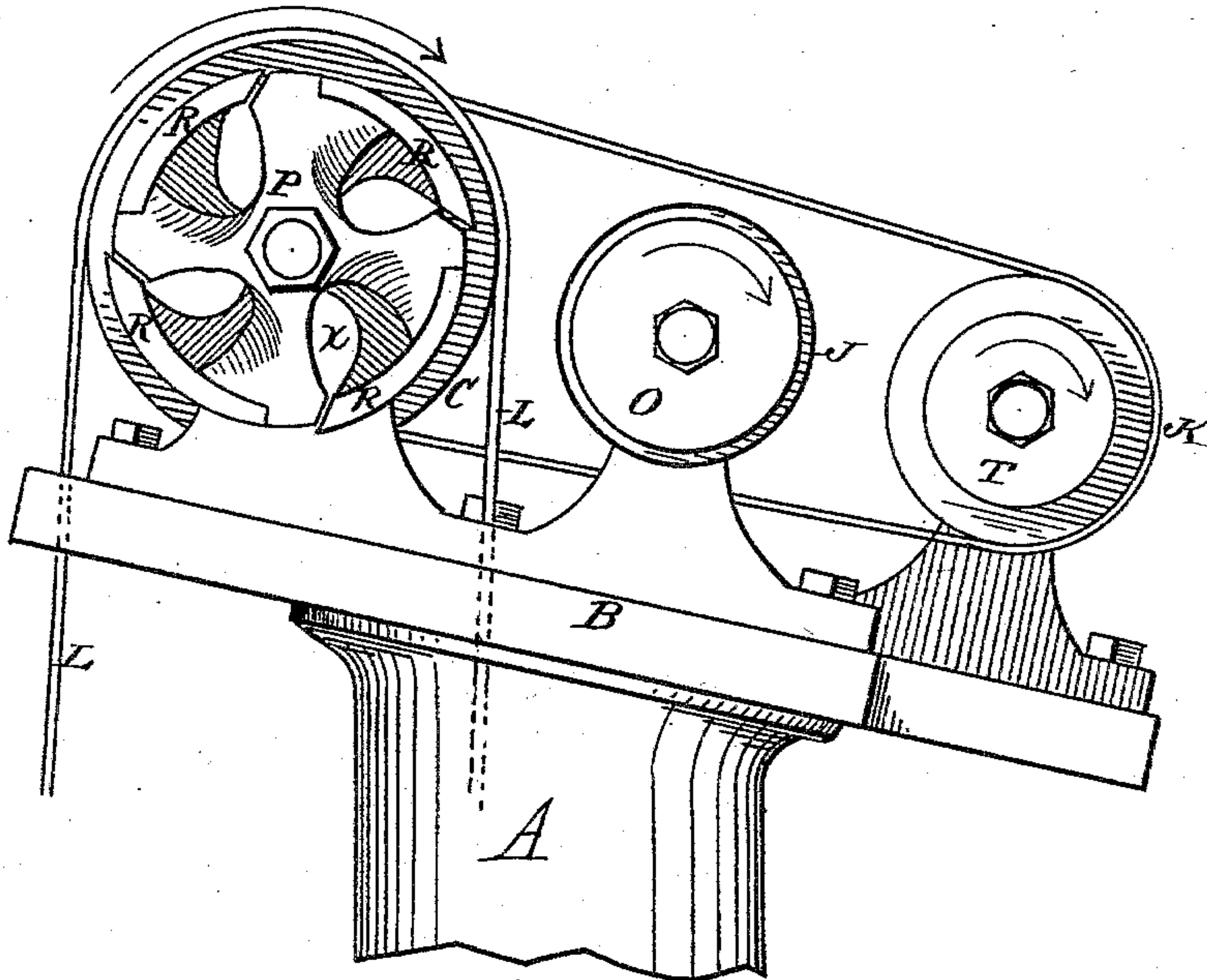


Fig. 2.

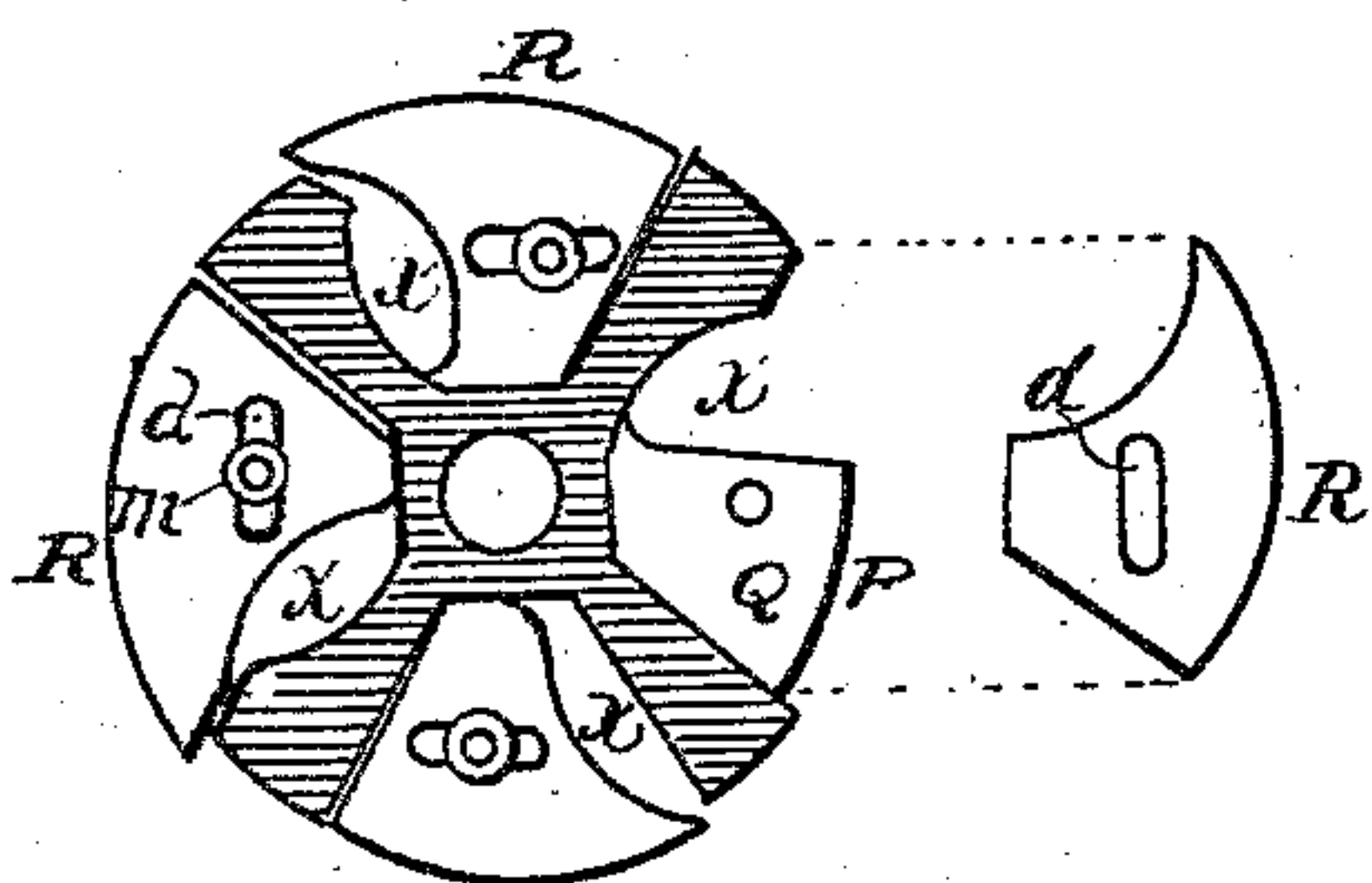


Fig. 3.

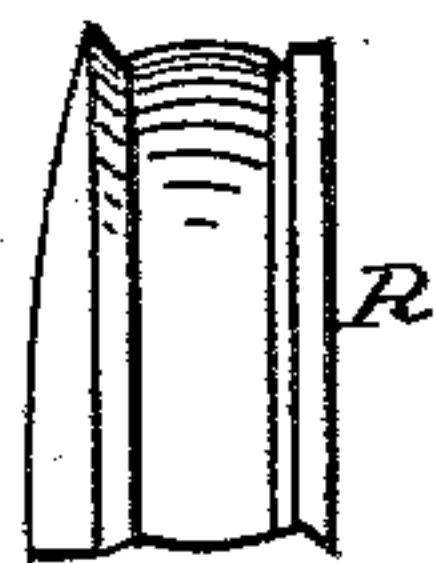


Fig. 4.

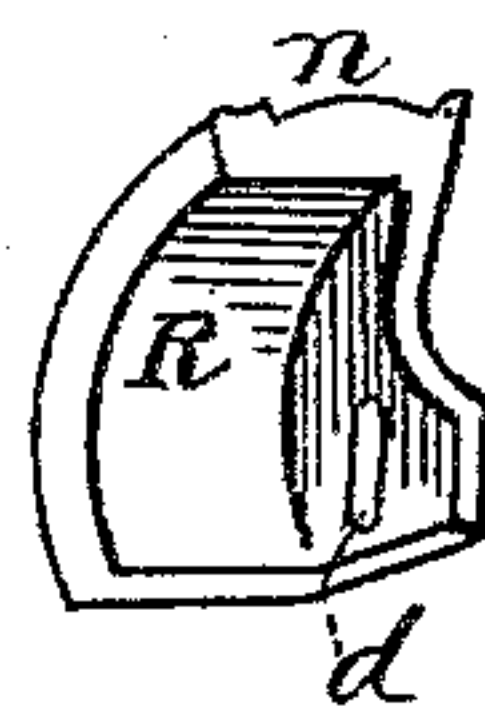


Fig. 5.

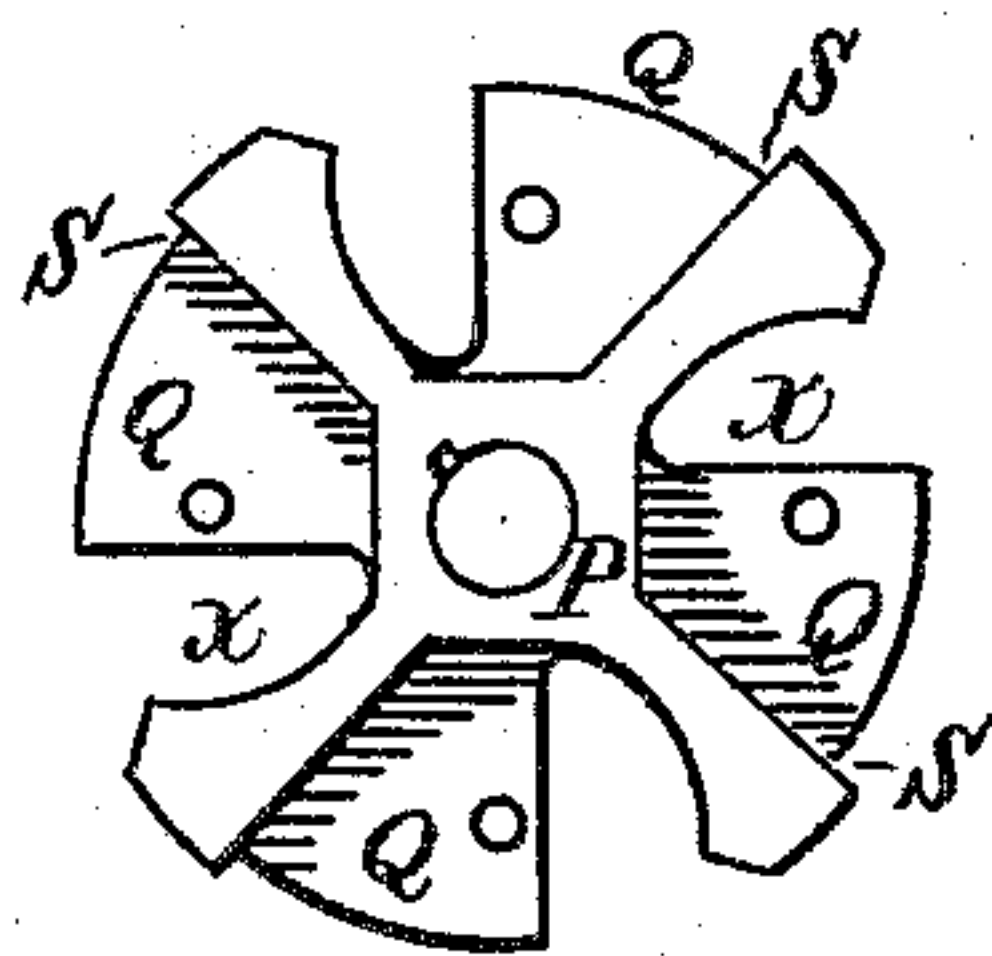


Fig. 6.

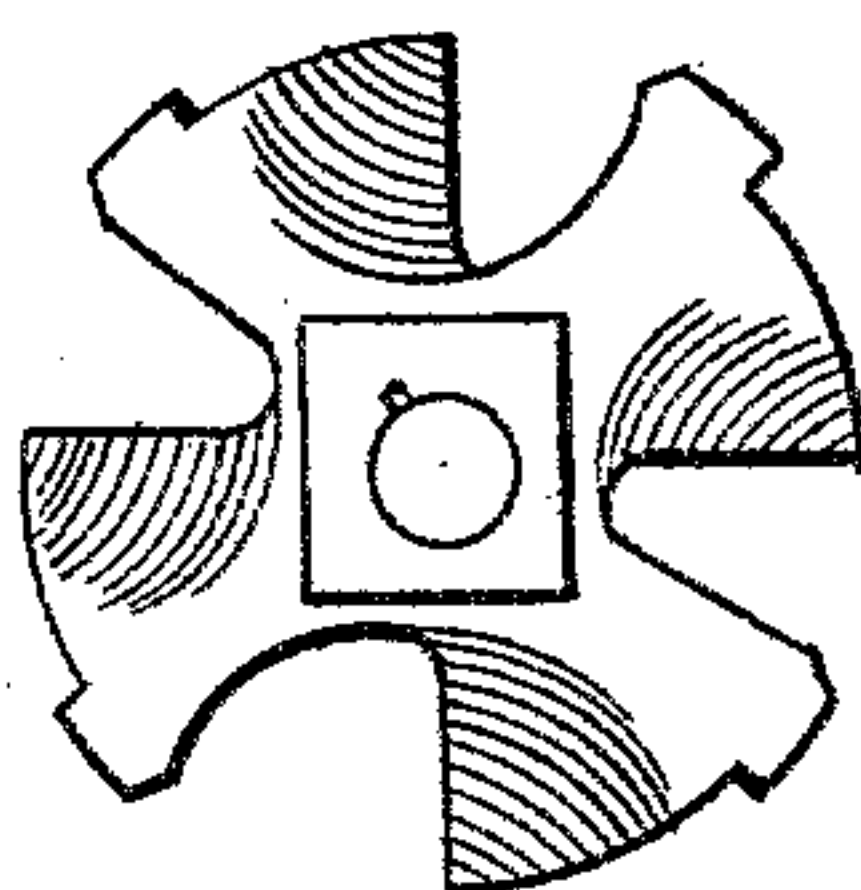


Fig. 7.

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# UNITED STATES PATENT OFFICE.

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## EDGE-TRIMMER FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 280,958, dated July 10, 1883.

Application filed January 15, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY F. ROONEY, of Randolph, in the county of Norfolk, State of Massachusetts, have invented a certain new and useful Improvement in Edge-Trimmers for Boots and Shoes, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view; Fig. 2, a side elevation; Fig. 3, a view of the rear side of the cutter-head, showing one of the cutters detached; Fig. 4, a front elevation of one of the cutters detached; Fig. 5, a perspective view of the same; Fig. 6, a rear view of the cutter-head with all of the cutters detached, and Fig. 7 a front view of the same.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of edge-trimmers for boots and shoes which are operated by power; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a more desirable and effective device of this character is produced than is now in ordinary use.

The nature and operation of my improvement will be readily understood by all conversant with such matters from the following description:

In the drawings, A represents the standard or body of the machine, B the head-stock, and C the main or driving pulley.

Journaled horizontally in parallelism with each other on the stock B there are three shafts, D E F, the shaft D carrying the pulleys C G H, the shaft E the pulley J, and the shaft F the pulley K. The pulley G is belted to the pulley J, these pulleys being preferably of about the same size and considerably smaller than the pulley C, which is driven by the belt L from the pulley M on the shaft N, mounted in the lower part of the standard or body A. The pulley H is of nearly the same size as the pulley C, but much larger than the pulley K, to which it is belted, as shown in Fig. 1.

Disposed on the outer end of the shaft D there is a cutter-head, P, provided with four radial arms, Q, each of these arms carrying a cutter, R, secured to its rear side by the screw *m*. Each of the arms is curved and beaded or grooved at its outer end in accordance with the finish it is desired to give the edge of the sole, and is provided with a shoulder or rabbet, S, against which the cutters R abut when in use, the cutters being each provided with a slot, *d*, for rendering them adjustable on the screws *m*.

The shaft E carries at its outer end a wheel, O, designed for use as a shank burnisher or polisher, its periphery being formed or grooved to correspond with the finish to be given that part of the sole. For trimming the shank, this wheel may be substituted by one substantially the same as that on the shaft D, but having its cutters and the ends of its radial arms formed to correspond with the form to be given the edge of the shank.

Mounted on the shaft F there is a small wheel, T, provided with burrs or inclined radially-cutting or abrading flanges *a* on its inner face. This wheel has a thin, but not a cutting, edge, and is designed for trimming down the welts of boots and shoes, the outer face of the wheel resting against the upper, and the burrs being brought to bear on the welt when used, the edge of the wheel passing in between the upper and welt as the wheel revolves.

The cutter P is designed as a plane or trimmer for the fore part of the sole, and one or more of the cutters R may be brought into use at a time, as desired, the cuttings or shavings taken from the sole passing out through the throats *x* under the cutters.

It will be obvious that the cutters may be adjusted to cut to any desired depth by means of the screws *m*, and that when they are all depressed and brought on a plane with the ends of the arms Q and secured in that position the cutter-head will thereby be converted into a polishing-wheel. The arms Q and the outer edges of the cutters also act to burnish or polish the edge of the sole when the cutters are not depressed, and to such an extent that in most cases no subsequent polishing will be required; but in case it is required polishing-



wheels may be used in place of the cutting-wheels.

My improvement has for one of its objects the production of an organized mechanism embodying in a compact form a welt-trimmer, a shank trimmer and polisher, and an edge trimmer and polisher for the fore part of the sole of the shoe, so that these different devices may be driven from one common source and used conveniently in succession in trimming and polishing the edges of boots and shoes; and to that end I have combined and arranged the wheels O P T and their actuating mechanism, as described and shown.

The shaft F is about one-half the length of the shaft D, and the shaft E about three-quarters the length of the shaft D, their pulley ends *t f g* being arranged on the same line, or in such a manner that their wheels O P T will not come opposite each other, and thereby interfere with the proper operations of the same.

The head-stock B is inclined toward the front of the machine at an angle of about thirty degrees, this feature rendering the wheels more readily accessible when respectively employed for the purposes for which they are designed.

In the use of my improvement the machine is started up by applying power to the shaft N through the belt and pulley U, causing the pulleys M C G H J K and wheels or heads O T P all to revolve in the direction of the ar-

rows thereon or in the same direction, the sole-edge of the boot or shoe being then applied to the wheels or cutters and its welt and edges trimmed and polished, in a manner which will be readily apparent without a more explicit description.

Having thus explained my invention, what I claim is—

1. A convertible cutter-head and burnishing-wheel for sole-edge cutting and burnishing machines, consisting of a stock composed of a hub and radial arms, the outer ends of which are shaped to correspond with the finish to be given the edge of the sole, and of a series of cutters having arc-shaped outer surfaces attached to said arms, said cutters being adjustable on a circle with the outer ends of said arms, substantially as described.

2. The cutter-head P, having the arms Q, provided with the shoulder S, and a screw or means for adjustably attaching the cutter thereto, substantially as set forth.

3. The convertible cutter-head P, having radial arms curved and beaded or grooved at their outer ends, and provided with cutters which may be adjusted to serve as trimmers or polishers, substantially as described.

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Witnesses:

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