

(No Model.)

J. G. BLOUNT.

BELT TIGHTENER FOR BUFFING MACHINES.

No. 395,732.

Patented Jan. 8, 1889.

Fig. 1.

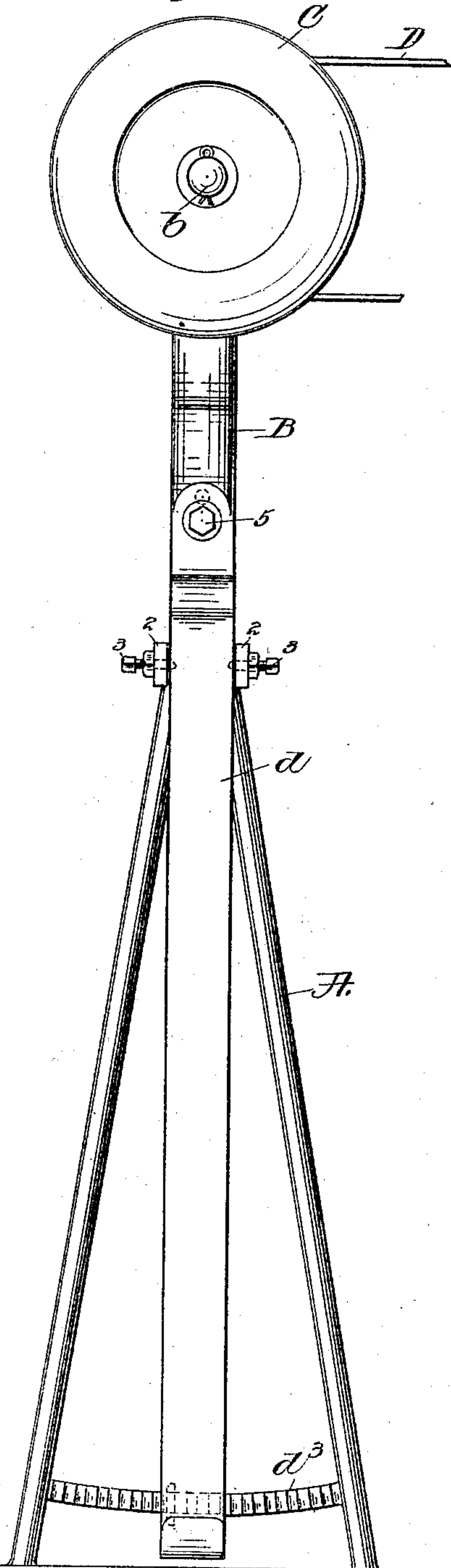
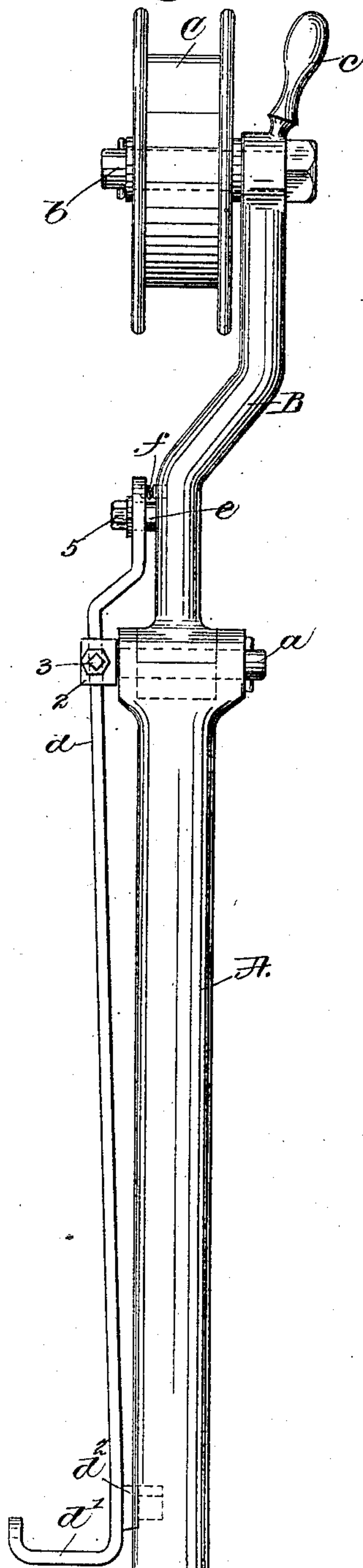


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JOHN G. BLOUNT, OF BOSTON, MASSACHUSETTS.

## BELT-TIGHTENER FOR BUFFING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 395,732, dated January 8, 1889.

Application filed March 16, 1888. Serial No. 267,393. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN G. BLOUNT, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Belt-Tighteners for Buffing-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to construct a strapping attachment for buffing-machines which may be operated to vary the tension on the strap by the foot or hand.

In accordance with this invention the strap or belt pulley is loosely mounted upon an arm pivoted to a standard, and a foot-lever is also pivoted to the said standard, the upper end of which is connected with the pulley-carrying arm, and the lower end of which is adapted to engage one or another tooth of a ratchet-toothed bar. The lower end of the foot-lever is held in engagement with the ratchet-toothed bar by a spring, which, as the foot-lever is moved from one tooth to another, will be depressed momentarily.

Figure 1 shows in front elevation a strapping attachment embodying this invention, and Fig. 2 a side elevation of the strapping attachment shown in Fig. 1.

The standard or frame A is of any suitable shape and construction to support the operating parts. The arm B is pivoted to the upper end of the standard A on the pin *a*.

The strap-carrying pulley C is loosely mounted on the pin *b*, which passes through the upper end of the arm B. A handle, *c*, is rigidly connected with the upper end of the arm B, by which said arm may be moved to vary the tension on the strap D, passing over the pulley. The pin *a*, passing through the upper end of the frame-work A, is provided at one end with two arms, 2 2, which form a yoke to receive the foot-lever *d*, said lever being held in the yoke by set-screws 3 in such manner that the said lever may turn freely on the screws 3 as pivots. The upper end of the lever *d* has a hole through it to receive a stud, *e*, projecting from or secured to the arm B, the lever *d* having a limited free movement on the stud. A spring, *f*, is interposed between the arm B and the upper end of the

lever *d*, the tendency of which is to throw the upper end of the lever *d* away from the arm B. The lever *d* at its lower end is bent to form a bearing or stirrup for the foot of the operator, as at *d'*, and the said lever has upon its inner side a tooth, *d*<sup>2</sup>, which engages a ratchet-toothed bar, *d*<sup>3</sup>, fixed in the lower end of the frame-work A. This ratchet-toothed bar and tooth serve as a locking device for the arm B, and as the lever *d* is thrown in one or the other direction by the foot of the operator the spring *f* yields to permit the tooth to move from one to another tooth of the ratchet-bar. By this arrangement it will be seen that the strap-carrying pulley C may be moved to vary the tension on the strap either by the foot-lever *d* or by the handle *c*.

By means of the foot-lever the tension on the strap D may be varied while the operator is still holding the article being polished, both hands being occupied at such time.

The movement of the lever *d* on the stud *e* is limited by a flanged set-screw, 5, screwed into the stud *e*, the flange bearing against the outer side or front of the lever *d*.

I claim—

1. The combination, with the frame or support, the pin *a*, arm B, pivoted thereon, the stud *e*, and strap-carrying pulley C, of a foot-lever pivotally attached to the said pin and movable toward and from the arm B upon the stud *e*, substantially as described.

2. The combination, with the support or frame A, pivoted arm B, and strap-carrying pulley C, of the handle *c*, rigidly connected with the upper end of the arm *b*, substantially as described.

3. The combination, with the frame or support A, pivoted arm B, and strap-carrying pulley C, of a foot-lever, *d*, having at its lower end the tooth *d*<sup>2</sup>, and the ratchet-toothed bar *d*<sup>3</sup>, with which the tooth of the foot-lever co-operates, substantially as described.

4. The combination, with frame or support A, the arm B, pivoted on the pin *a* and having the yoke 2 2, the strap-carrying pulley C, of the lever having pivots 3 in the said yoke, the stud *e*, the spring *f*, and a locking or engaging device, *d*<sup>2</sup>, substantially as described.

5. The combination, with the main frame



or support A, the pivoted arm B, and strap-  
carrying pulley C, of the foot-lever *d*, having  
the spring *f*, bearing against it at one end, and  
a locking or engaging device, substantially as  
5 described, at the other end of the foot-lever,  
as and for the purposes set forth.

In testimony whereof I have signed my

name to this specification in the presence of  
two subscribing witnesses.

JOHN G. BLOUNT.

Witnesses:

BERNICE J. NOYES,  
J. C. SEARS.