

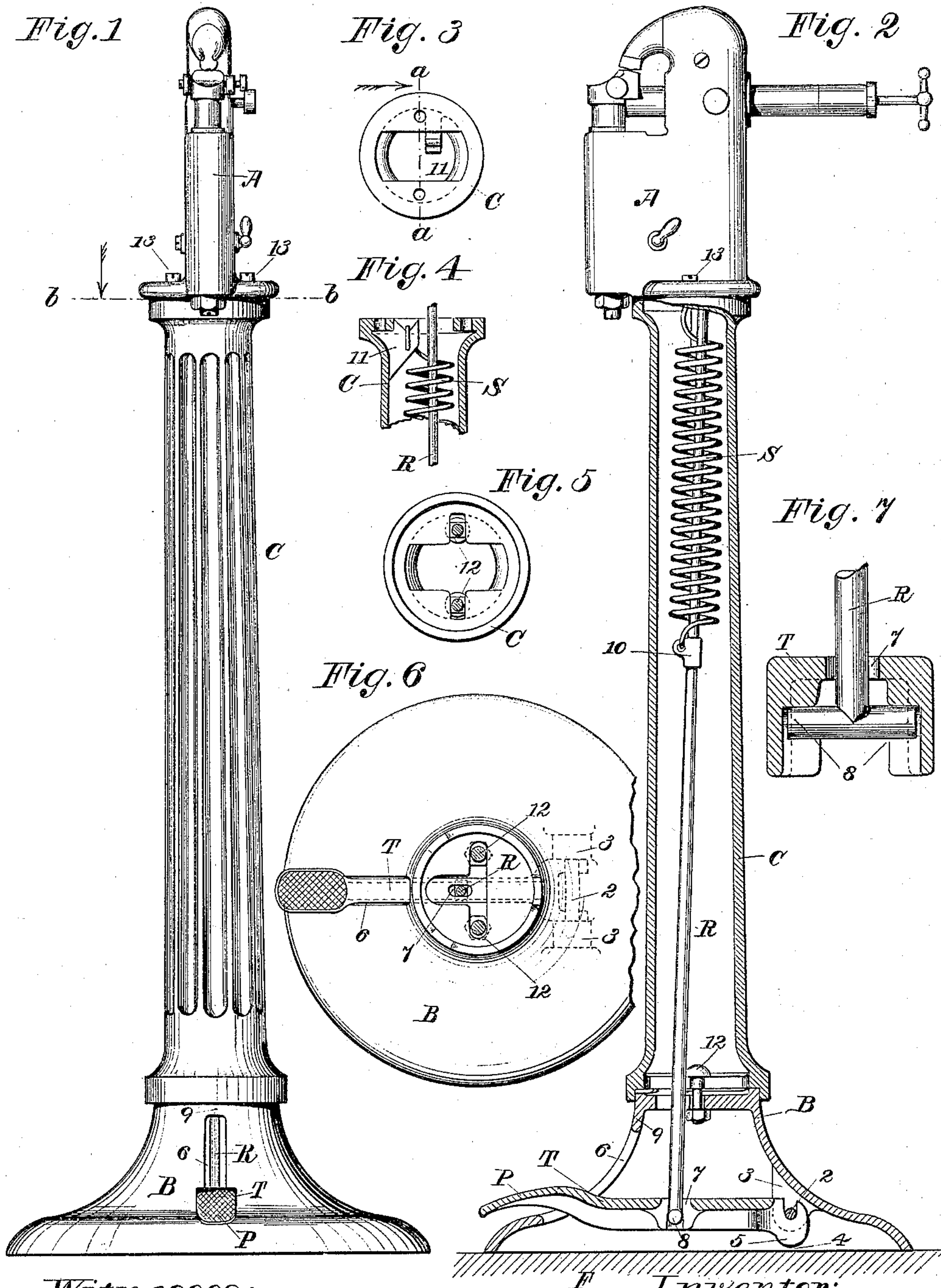
(No Model.)

F. H. RICHARDS.

STAND AND TREADLE MECHANISM FOR MACHINERY.

No. 335,626.

Patented Feb. 9, 1886.



Witnesses:

Frank H. Pierpont

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STAND AND TREADLE MECHANISM FOR MACHINERY.

SPECIFICATION forming part of Letters Patent No. 335,626, dated February 9, 1886.

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To all whom it may concern:

Be it known that I, FRANCIS H. RICHARDS, of Springfield, in the county of Hampden, State of Massachusetts, have invented certain new and useful Improvements in Stand and Treadle Mechanism for Machines, of which the following is a specification.

This invention relates to improvements in stands for supporting and treadle mechanism for operating small machines—such, for instance, as button-fastener-setting machines, and others adapted to be operated from a treadle—the object being to furnish an improved apparatus for that purpose having the combinations hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a front elevation of an apparatus embodying my invention. Fig. 2 is a side sectional elevation of the same. Fig. 3 is a top view of the upper end of the stand, or a view in line *b b*, Fig. 1. Fig. 4 is a vertical section of the upper part of the column in line *a a*, Fig. 3, this section being taken at right angles to Fig. 2. Fig. 5 is a view of the bottom of the column. Fig. 6 is a top view of the base and treadle, the column being removed. Fig. 7 is an enlarged cross-sectional view of the treadle where the treadle-rod is connected thereto.

Similar characters designate like parts in all the figures.

B designates a broad hollow base, and C a column surmounting it, which together constitutes a machine-stand.

The small machine designated by A and supported on the column is supposed to contain mechanism adapted to be reciprocatingly operated from the treadle mechanism with which the stand is furnished. This mechanism comprises the treadle T, the treadle-rod R, and the pull-spring S. The treadle is a lever of the second order, having its fulcrum on a pin, 2, which extends between lugs 3 within the base, as shown by dotted lines in Fig. 6. Said pin fits into a deep notch formed in the upper side of the lever, as shown in Fig. 2, which notch is deeper than the space

4 between the downward curve 5 and the floor 50 F, on which the stand is set. These parts being so constructed they are assembled by putting the treadle through slot 6 in the base and hooking its notched end under pin 2. On putting the base on the floor, the treadle 55 is now prevented from slipping off from the pin, this being accomplished by the aforesaid construction without the use of separate parts, as ordinarily required. Forward of pin 2 the treadle-rod R passes down through a mortise, 60 7, in the treadle, and is furnished with laterally-projecting pins 8, which fit into bearings formed in said treadle, as shown best in Figs. 2 and 7. By this arrangement the operator by pushing down of the foot-piece P at the outer 65 end of the treadle draws down rod R, which is returned by the aforesaid spring S. The upper end, 9, of slot 6 forms a stop to limit the upward movement of the treadle.

In order that the spring may draw on the rod as nearly as possible in a line therewith, and to permit the use within a small column of a large spring in combination with a rod, said spring is placed nearly centrally within the column, and the rod is arranged to pass 75 through said spring, which spring is secured at its lower end on eye 10, formed on the rod, and at its upper end to a hook, 11, projecting inwardly from the column close to the rod. By this means there is obtained a compact 80 and effective combination of parts, in which, within a column of the small size required for the aforesaid class of machines, ample room is secured for a spring of large diameter, while leaving a free passage for the rod from the 85 treadle to the operated mechanism. The base and column are held together by two bolts, 12, which are put through a central opening of an internal flange formed in each, and are then carried sidewise into notches formed in 90 said flanges to receive them, as will fully appear from comparison of the several figures of drawings. The machine A is held on the stand by two screws, 13, as shown, or in any other well-known and convenient way. 95

Having thus described my invention, I claim—

1. The combination of column C, the spring

S, within the column and at one end connected thereto, and a treadle-rod connected to and passing through said spring, substantially as set forth, and for the purpose specified.

- 5 2. The combination, in a stand of the specified class, of a base, B, having a fixed pin, 2, underneath it, and a treadle, T, having an upper notch fitting over said pin, and a down-

wardly-projecting part, as 5, preventing the displacement of said treadle while said base 10 stands on a support, as floor F, substantially as set forth.

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Witnesses:

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