

R. E. CAMPBELL.
Mattress Frames.

No. 232,334.

Patented Sept. 21, 1880.

FIG. 1.

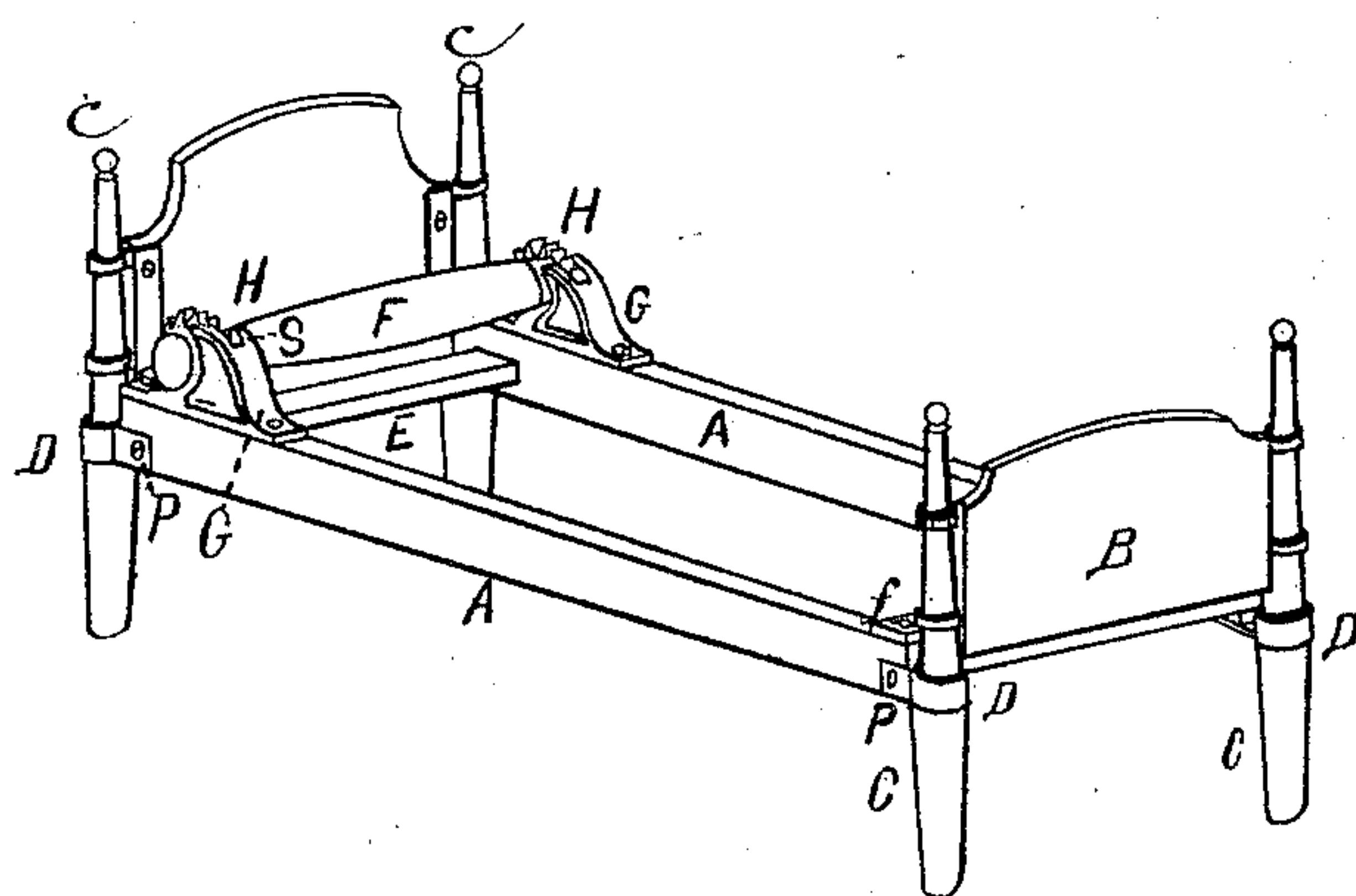


FIG. 2.

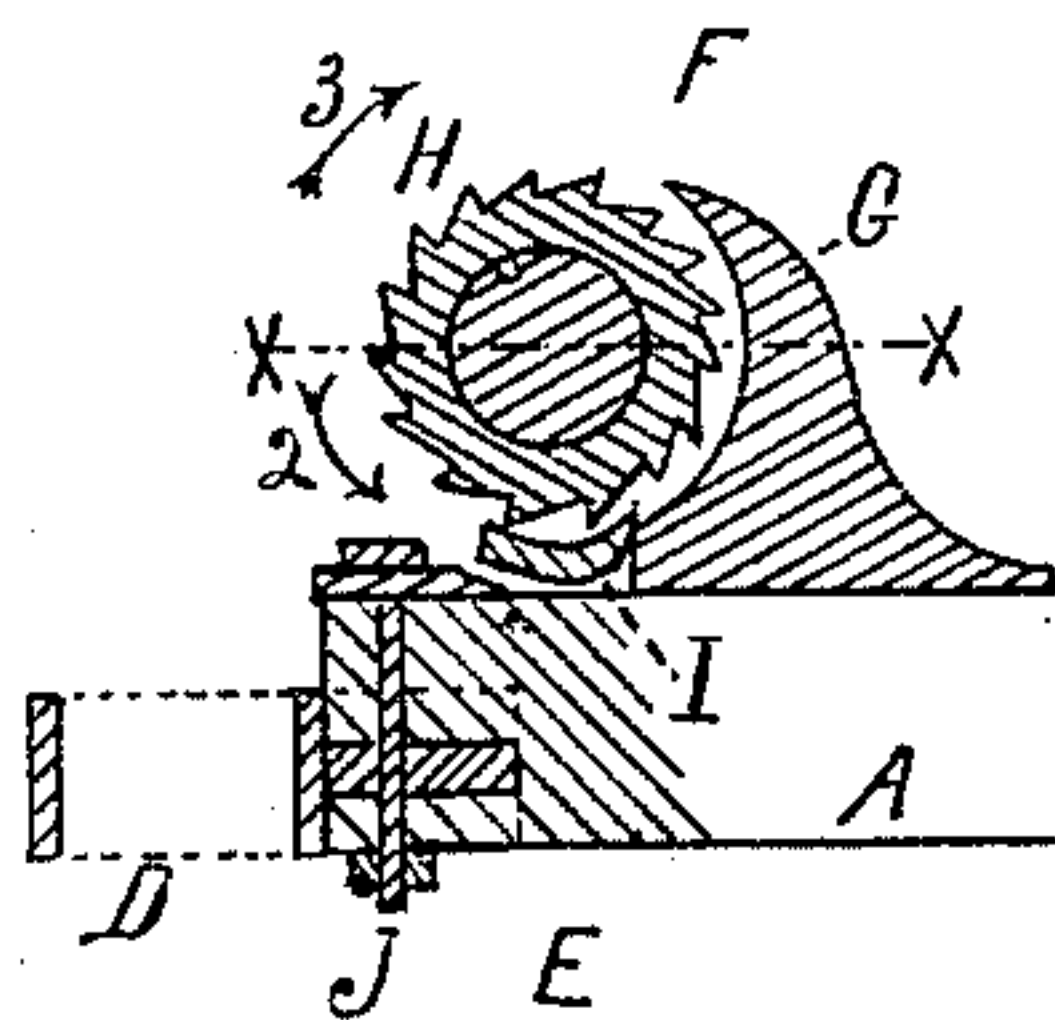


FIG. 3.

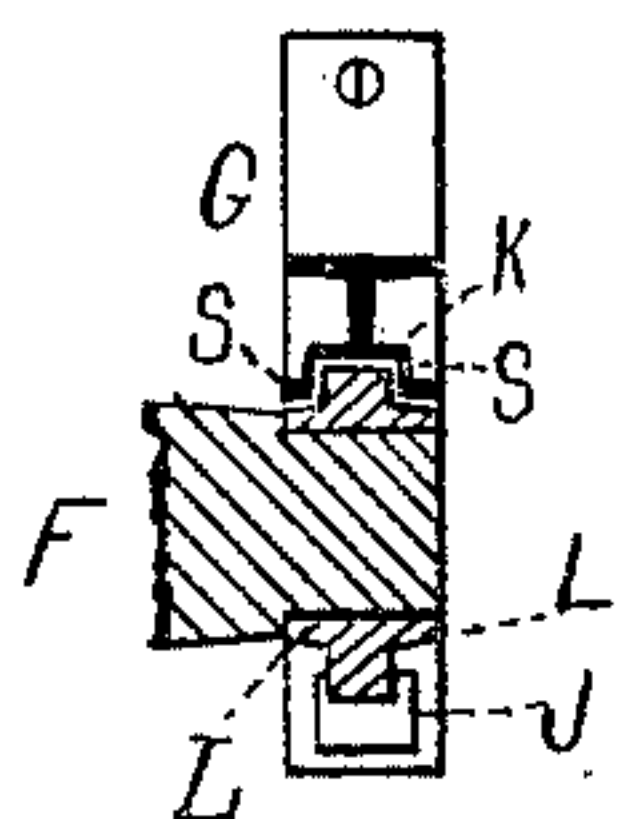


FIG. 4.

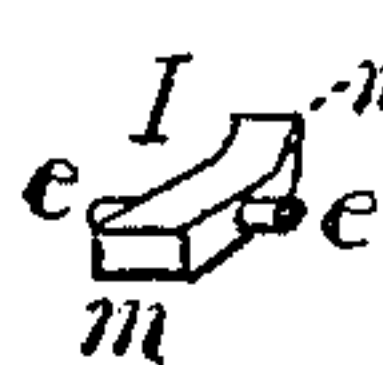
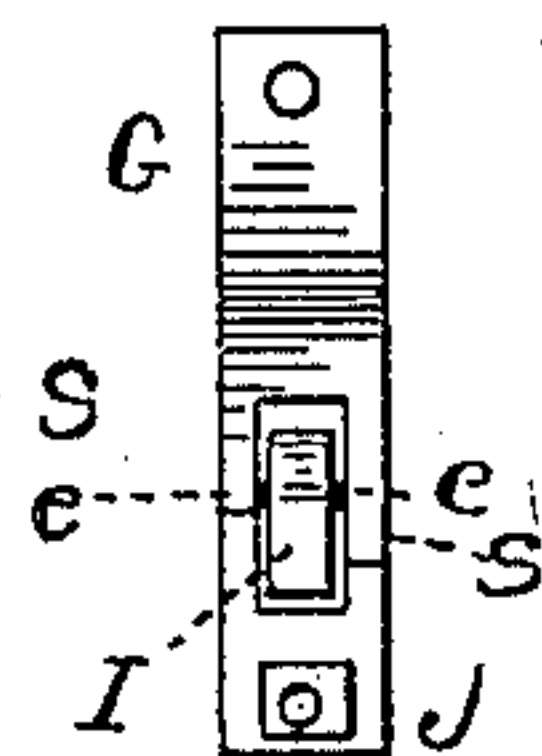


FIG. 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ROBERT E. CAMPBELL, OF CHICAGO, ILLINOIS.

MATTRESS-FRAME.

SPECIFICATION forming part of Letters Patent No. 232,334, dated September 21, 1880.

Application filed September 25, 1879.

To all whom it may concern :

Be it known that I, ROBERT E. CAMPBELL, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Mattress-Frames, of which the following is a specification, in which—

Figure 1 is a perspective representation of my improved mattress-frame attached to the posts of a bedstead; Fig. 2, a vertical section of the ratchet and ratchet-stand, taken longitudinally, with the side rails of the mattress; Fig. 3, a section of the ratchet and ratchet-stand, taken on line *x x*, Fig. 2; Fig. 4, a perspective representation of the pawl removed from the other parts; Fig. 5, a top view of the ratchet-stand.

The object of the present invention is to improve the bed-bottom patented to David W. Taylor on August 29, 1876, No. 181,605.

The nature of the invention consists in the novel construction of the ratchet, ratchet-stand, and pawl as combined with the swell-roller to hold the latter in a fixed position after it has been turned to tighten the fabric which supports the bedding.

A A represent the side rails to the mattress-frame, and *E E* are the end bars. *F* is the same form of swell tension-roller shown in said Letters Patent. *G G* represent what I term "ratchet-stands," which are in bracket form, and are formed on their concave edges with recesses *K*, to permit a free movement of the ratchets *H*. The margins of these recesses are inclined inward to form bearings to fit conical journals *L* on both sides of the ratchets *H H*. The function of bearings *S S* is to sustain the strain put on the roller *F* in stretching the fabric, and the object of beveling them inward is that the conical bearings

L L on the ratchet *H* may prevent such a longitudinal movement of the roller as would cause the ratchet to grind against the ratchet-stand.

The inside prongs of the stands are formed on a line with the roller, that the wire fabric may extend to the ratchets *H H*.

A pawl, *I*, is fitted into a recess formed in the lower part of each stand *G*, and held in place by pivots *e e*. The end *n* of the pawl is fitted to engage the ratchet *H*, and the end *m* is weighted, so as to cause the end *n* to catch onto the ratchet when the roller is turned in the direction indicated by dart 3, and also to permit a free movement of the roller in the direction of dart 2.

The stands *G*, rails *A*, and cross-bars *E* are held together by bolts *J*, Fig. 2. Said bolts also pass through the shanks *P P* of the thimble-sockets *D D*, and firmly unite the parts. The thimble-sockets pass onto the posts *C C*, and unite the mattress-frame with the other parts to form a complete bedstead; but this latter feature is not claimed in this application.

I claim and desire to secure by Letters Patent—

The ratchet-stands *G G*, recessed at *K*, and formed with beveled bearings *S S*, in combination with the ratchets *H H*, forming the conical journals *L*, located at the sides of the ratchet, and the weighted pawls *I I*, placed in recesses below the ratchets *H H*, the bolts *J*, side rails, *A A*, and roller *F*, as and for the purpose specified.

ROBERT E. CAMPBELL.

Witnesses:

WILLIAM R. MANLOVE,
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