

W. Wells,

Bed Bottom.

No. 100698.

Patented Mar. 8. 1870.

FIG. 1.

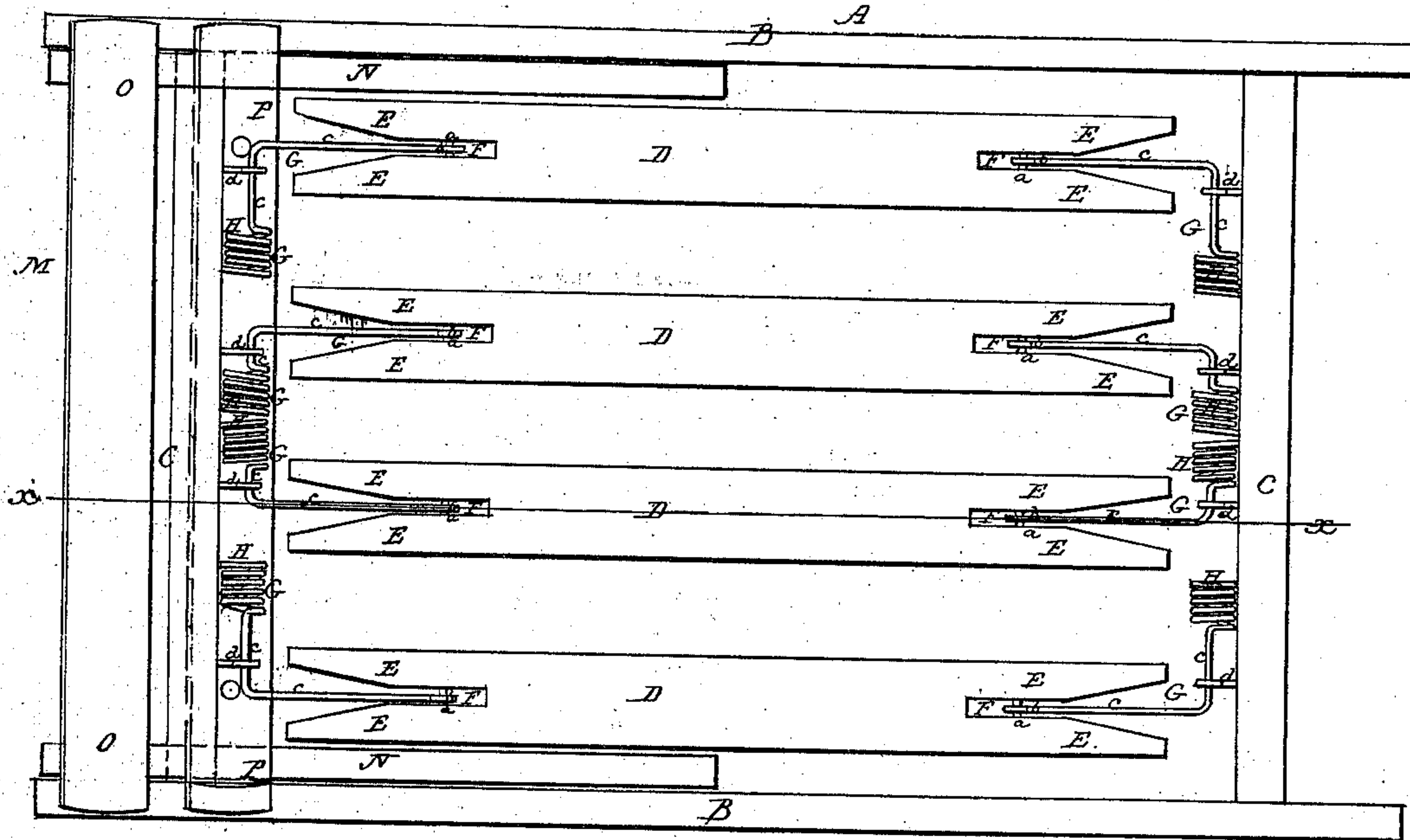


FIG. 2.

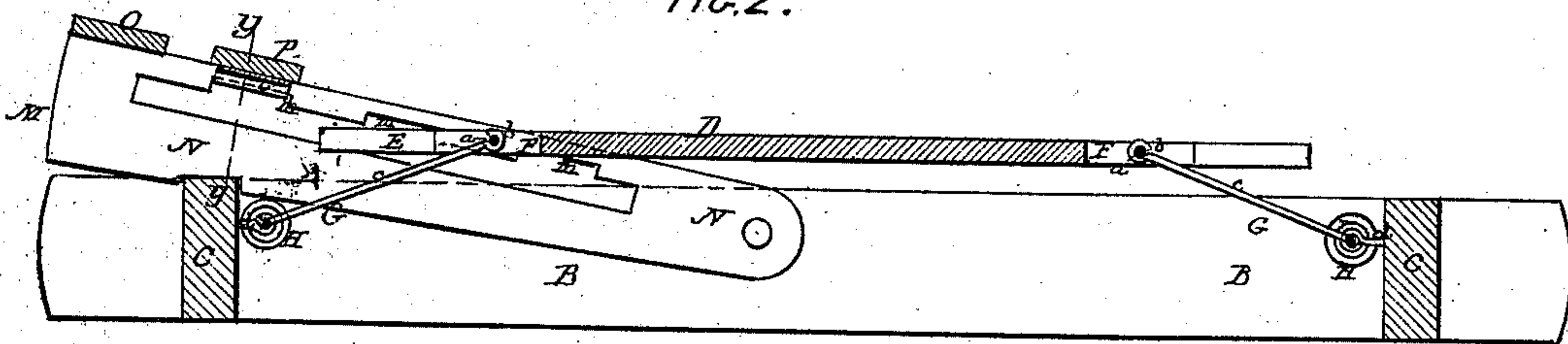
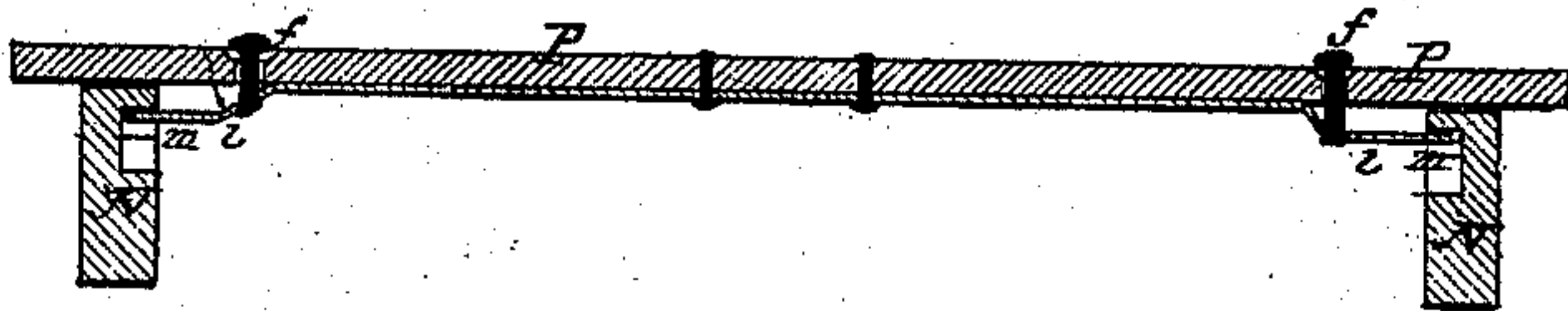


FIG. 3.



WITNESSES.

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WILLIAM WELLS, OF SALEM, MASSACHUSETTS.

Letters Patent No. 100,698, dated March 8, 1870.

IMPROVED SPRING-BED BOTTOM.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents shall come:

Be it known that I, WILLIAM WELLS, of Salem, in the county of Essex, and State of Massachusetts, have invented certain new and useful Improvements in Spring-Beds, and that the following is a full and exact description of the same, reference being had to the accompanying plate of drawings.

My invention consists in the peculiar construction of springs, in combination with reversible slats.

It also consists in the construction of a head-rest, as will be hereinafter described.

In the accompanying plate of drawings my improvements in bedsteads are illustrated—

Figure 1 being a plan view of a bed-frame, showing its slats, hung by springs and otherwise arranged, and constructed according to the same;

Figure 2, a longitudinal vertical section in plane of line *x x*, fig. 1; and

Figure 3, a transverse section in plane of line *y y*, fig. 2.

A in the drawings represents a bed-frame, consisting in the present instance of parallel side rails B and end rails C, properly joined and fastened together.

D, a series of slats similar in length and width, and arranged in bed-frame along its length, between the side rails B, at suitable distances apart.

These slats D, at each end, are made of a forked shape, or with prongs E in the space F, between which in each instance a pin or pivot, *a*, is fastened.

By these pins *a*, the slats D at each end are hung to the open eyes *b* of a series of springs, G, one to each end of slat.

These springs G are spiral at the end H, and by that end fastened to the inner face of rails C of a bed-frame, along which they extend, passing by their straight portion *c* through fixed staples *d*, and from thence at right angles to the ends of slats by pins *a*, of which they are connected therewith, as before stated.

With weight upon the slats, the springs by which they are hung, in giving thereto, act both torsionally and spirally, to hold the slats—torsionally through the straight portion, and spirally as well as torsionally through the spiral portion, whereby a most thorough and perfect spring action is obtained, as is obvious.

As the slats by pins are hung to open eyes of the springs, they are free to be detached therefrom at pleasure, and reversed in position, end for end, if so desired, with either side uppermost, thus enabling them to be so changed from time to time as to prevent their becoming "set."

M, a frame hung to and between the side rails B of bed-frame A proper, and at one end thereof.

This frame M is formed of parallel side pieces N, by one end of which it is pivoted to the side rails C, their other ends connected together by a cross-rail or slat, O, in the present instance firmly attached in any suitable manner. This frame M is provided for a head-rest to the bed-frame, and it is intended to attach to it prop-sticks for supporting it at a greater or lesser inclination, as may be desired.

P, a slat to rest frame M. This slat is arranged on the frame, between the fixed slat O thereof and its point of hanging to the bed-frame A, and has attached to it at each end a spring catch, *l*, in the present instance, both made of one and the same piece of metal fastened at the center to the under side of the slat.

The spring catches *l* are arranged to interlock with notches *m* of suitable shape therefor, made in and along the inner faces of side rails, to rest frame, and by them, in connection with said notches, the slat to which they are applied is secured, and held in position upon the said frame, they allowing, also, as is obvious, the slat to be adjusted and set at different points across the rest-frame, whatever may be its inclination relative to the bed-frame *f*, pushers for operating spring catches *l*.

By thus having a slat to the rest-frame susceptible of adjustment thereon, less slats are necessary, and thus the said frame can be more compactly and closely folded down with the bed-frame, when not desired to be used.

Having thus described my improvements, I shall state my claim, as follows:

What I claim, and desire to have secured to me by Letters Patent, is—

1. In combination with the reversible slats D of the springs G, which are coiled at H, extended transversely at *c*, and continued at right angles to the point of junction with the slats, in connection with the bearings *d*, whereby the axes of the springs are on the transverse portions *c*, and the coils act spirally and torsionally, as set forth.

2. The combination with the hinged frame M of the sliding slat P and spring catches *l*, as set forth, for the purpose described.

The above specification of my improvement in spring-beds signed by me this 13th day of November, A. D. 1869.

WILLIAM WELLS.

Witnesses:

EDWIN W. BROWN,
ALBERT W. BROWN.