

D. FRANKFODER.
Bed-Bottoms.

No. 140,492.

Patented July 1, 1873.

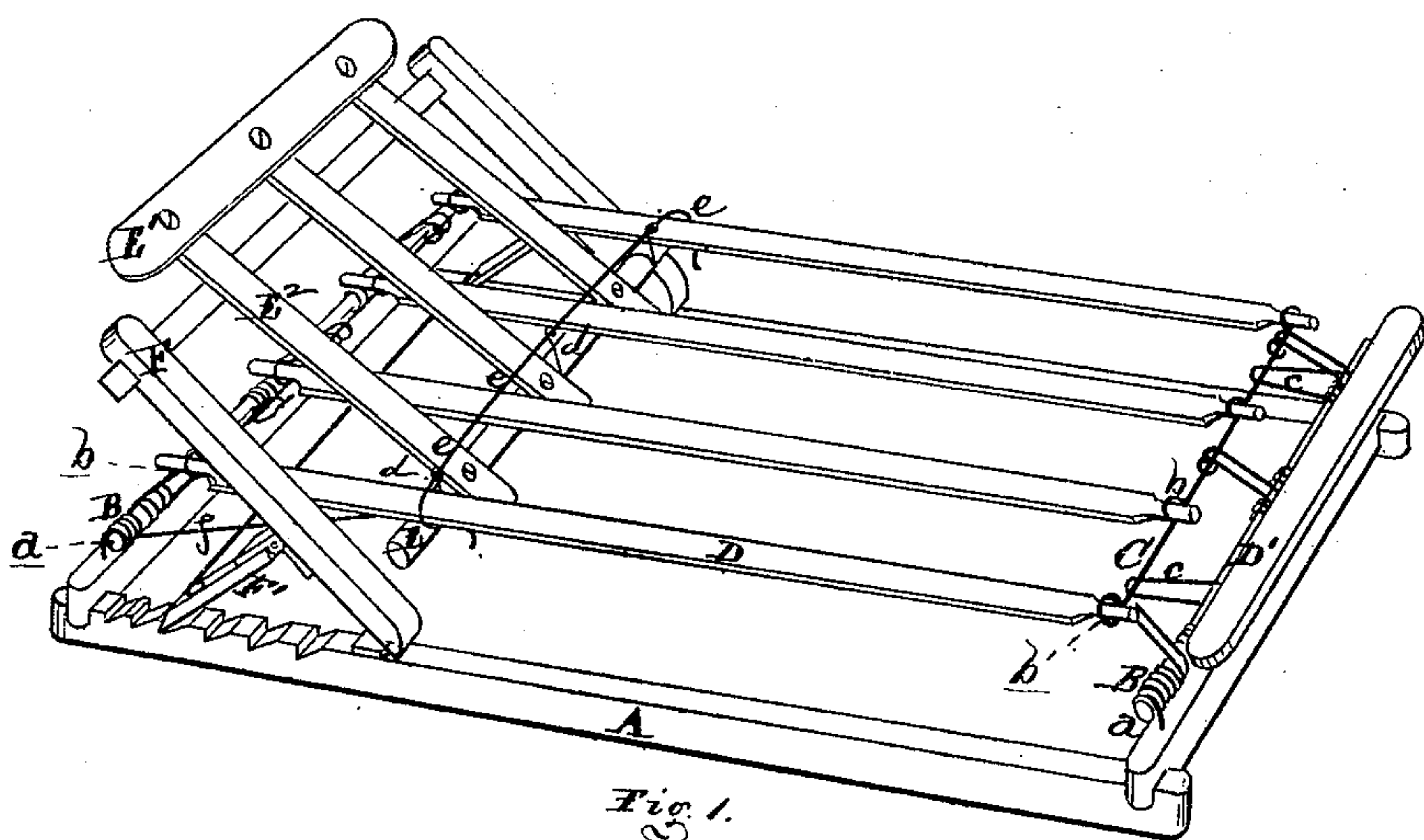


Fig. 1.

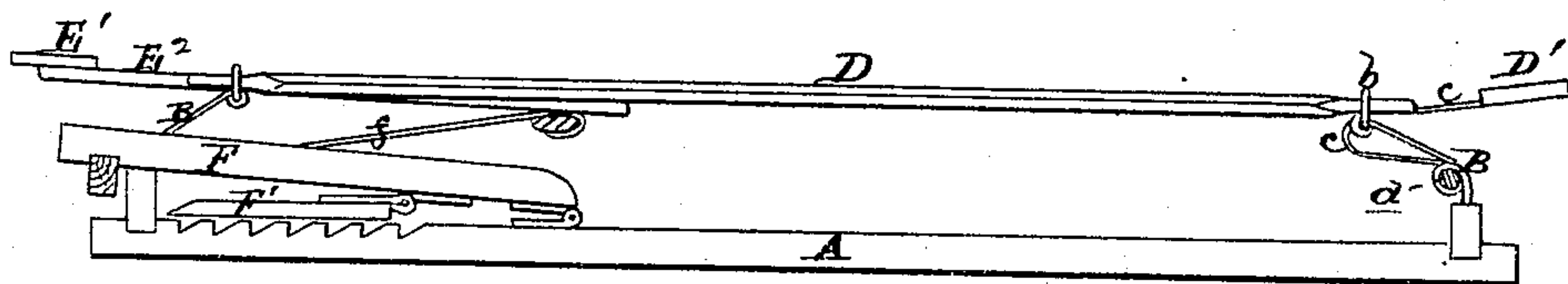


Fig. 2.

ATTEST:

H. F. Everts.
W. S. Sprague

INVENTOR:

David Frankfoder.
per attorney.
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UNITED STATES PATENT OFFICE.

DAVID FRANKFODER, OF WAKARUSA, INDIANA, ASSIGNOR TO HIMSELF
AND GEORGE W. STALEY, OF SAME PLACE.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **140,492**, dated July 1, 1873; application filed
May 17, 1873.

To all whom it may concern:

Be it known that I, DAVID FRANKFODER, of Wakarusa, in the county of Elkhart and State of Indiana, have invented a new and useful Improvement in Bed-Bottoms; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved bed with the invalid-bolster raised. Fig. 2 is a sectional side elevation of the same with the bolster lowered.

Like letters refer to like parts in both figures.

The nature of this invention relates to an improvement in the construction of that class of spring-slat bed-bottoms which are provided with an adjustable bolster at the head, and is more especially designed as an improvement on the bed-bottom for which Letters Patent were issued to this applicant and George W. McGeorge, on November 19, 1872, and numbered 133,090. The invention consists, first, in the peculiar method of supporting the slats in a transverse bar suspended in the bales of the springs; second, in the peculiar method of supporting and suspending the adjustable bolster, and in the general arrangement of the various parts, as more fully hereinafter set forth.

In the drawing, A represents the frame of my improved bed-bottom, in the head and foot pieces of which are inserted the ends of the double helical springs B B, &c., through the spirals of which a cylindrical rod, *a*, is inserted. The bales of these springs point upward and inward, and their ends are bent into loops, through all of which is inserted a No. 9 wire rod, C, having bent in it a series of eyes, *b*, each of which receives the rounded end of a slot, D, which is thus supported at each end. In the bed-bottom, described in the above-mentioned Letters Patent, the tenons of the slats are received in eyes formed in the bales of the springs. In practice it is found that when the spring-bales were depressed by pressure upon the slats, the eyes, being rigid

with the bale, would incline with the depression of the bale and bind the tenon of the slat, preventing its free movement in the eye, and causing it to bend the bale. By supporting the slats in the manner shown, these objections are entirely obviated. At the foot of the frame a foot-slat, D', is supported across the ends of, but beyond, the slats D, by means of C-springs *c* to support the lower end of the mattress. E is the lower, and E' the upper bar of a bolster-frame, connected by slats E², intermediately placed between the slats D, the bar E being suspended across and underneath the slats D by links *d d*, from a No. 9 spring-wire rod, *e*, laid across the slats, its ends being hooked under the edges of the outside slats. The bar E is kept from moving out of place by radius-rods *f f*, connecting it with the spring-rod *a* at the head of the frame. The slats E, when the bolster is lowered to the horizontal plane, rest upon the rod C at the head of the main slats. F is a bolster-prop, composed of three bars, forming three sides of a rectangle. The free ends of the side bars of this prop are hinged to the side bars of the main frame, and under each is hinged a pawl, F', whose foot engages with a ratchet on the head-part of the side bar. The pawls F' are connected by a rod, *g*, to compel them to move in unison.

The arrangement of the devices for adjusting the position and supporting the bolster-frame are such that the latter is easily and readily fixed at any desired angle.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The arrangement of the rod C, provided with eyes *b*, with relation to the springs B for supporting the slats D, as shown and set forth.

2. The combination, with the frame A, springs B, rods C, and slats D, of the bolster-frame E E' E², links *d*, rod *e*, radius-rods *f f*, bolster-prop F, pawls F', and rod *g*, substantially as and for the purpose set forth.

DAVID FRANKFODER.

Witnesses:

H. F. EBERTS,
H. S. SPRAGUE.