

(No Model.)

S. G. BURLEIGH.
BED BOTTOM.

No. 495,690.

Patented Apr. 18, 1893.

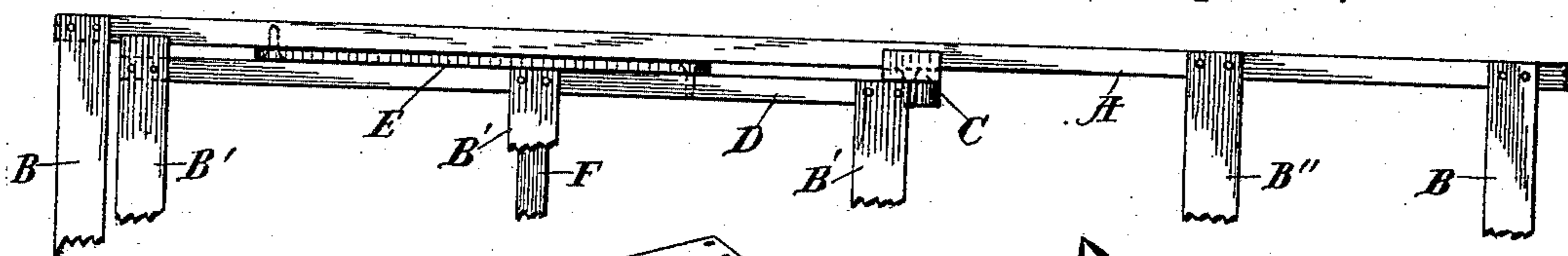


Fig. 4.

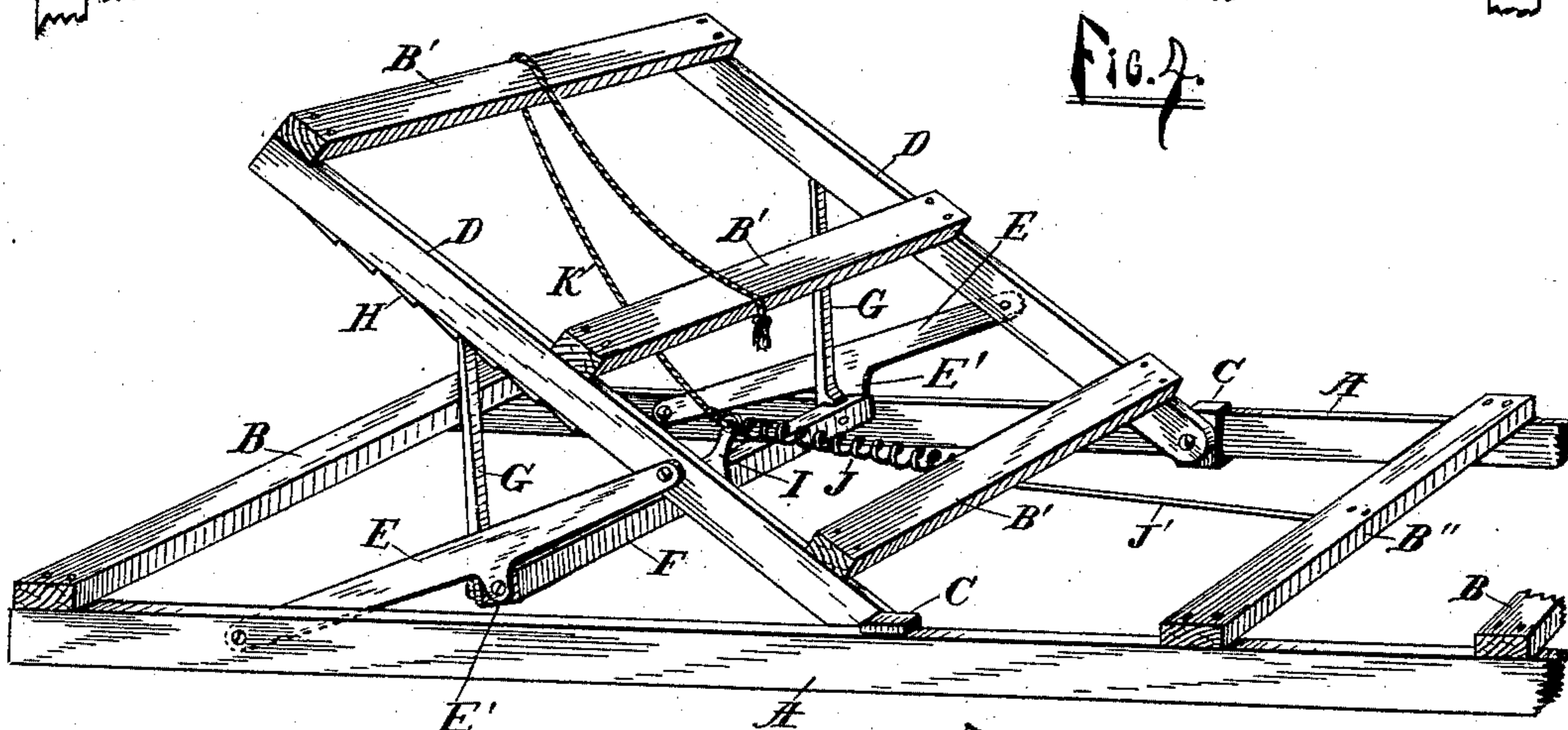


Fig. 1.

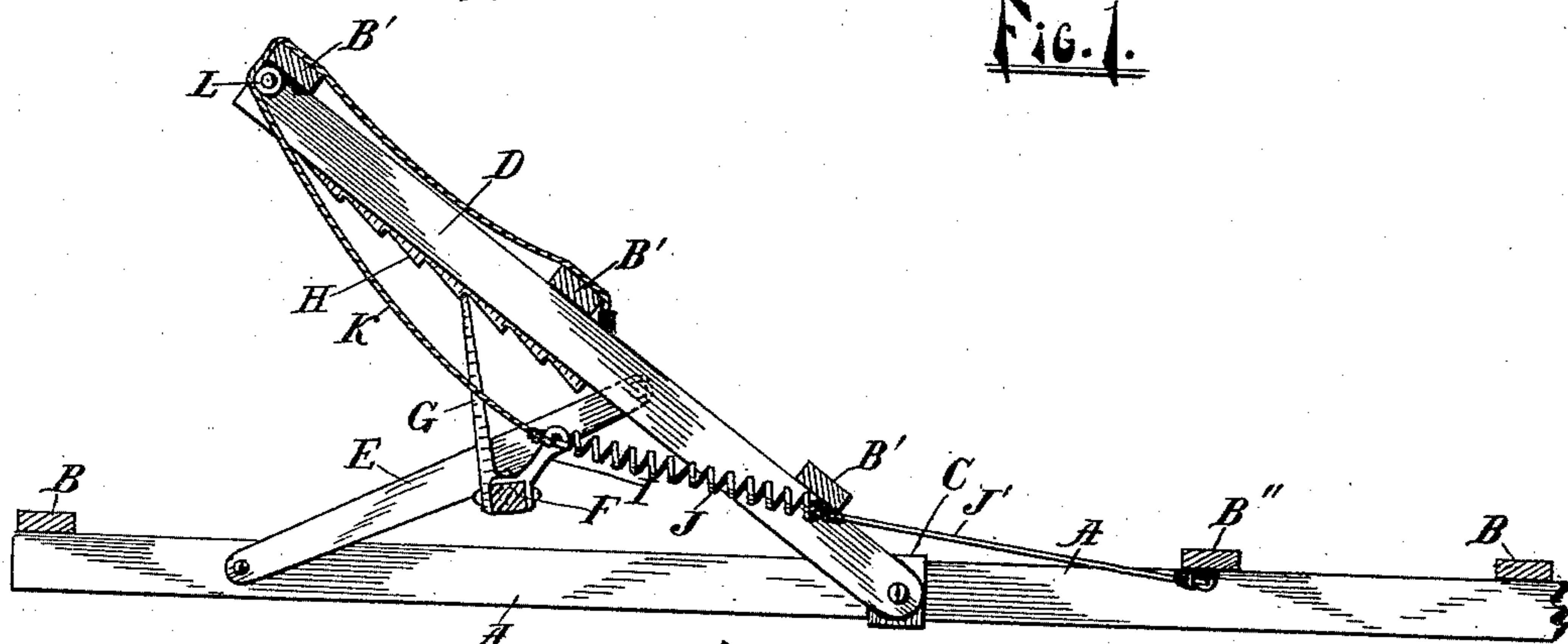


Fig. 2.

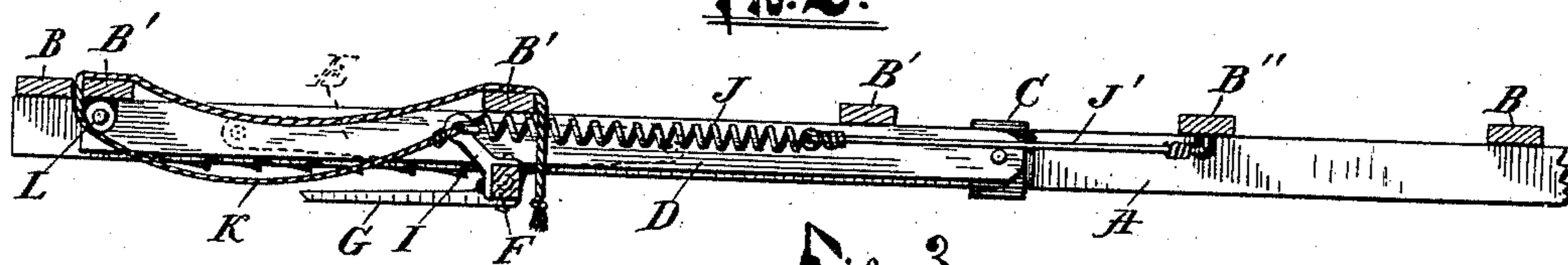


Fig. 3.

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SAMUEL G. BURLEIGH, OF GRAND RAPIDS, MICHIGAN.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 495,690, dated April 18, 1893.

Application filed June 24, 1892. Serial No. 437,923. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL G. BURLEIGH, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements, in that class of bed bottoms, which have a portion adapted to be elevated at the head in an inclined position, and its object is to provide the same with certain new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings in which—

Figure 1 is a perspective of the head end of a bed bottom embodying my invention as it appears, when inclined; Fig. 2 a longitudinal vertical section of the same; Fig. 3 the same as Fig. 2 as it appears when lowered to the horizontal position; and, Fig. 4 a plan view of one side of the same as Fig. 3.

Like letters refer to like parts in all of the figures.

A A are two parallel sills which are connected by a series of transverse slats B B' B'', arranged at suitable intervals and secured at their respective ends to said sills.

C C are slides arranged opposite each other and adapted to move longitudinally on the sills A. To these slides are pivoted the ends of short sills D D, which are connected by a series of slats B' B' B', these sills and slats forming a section of the bed bottom, which is free to swing in a vertical plane on said pivots, and be elevated at one end as shown, whereby the head of the bed may be raised at pleasure.

E E are braces preferably of thin metal pivoted at their respective ends to the stationary sills A A and the movable sills D D. Near the middle of said braces are downwardly projecting lugs E' E' in which are journaled the respective ends of a transverse rocker bar F, to which bar are rigidly attached pawls G G engaging ratchets H H on the under side of the sills D D. Near the middle of said rocker bar is attached an upwardly projecting arm I,

to which is attached one end of a contractile spring J; the other end of said spring is attached to the stationary slat B'' by means of a cord or wire J'. A cord K is also attached to said arm I, which cord extends oppositely to said spring and under a pulley L in the upper end of the inclined part of the bed bottom, and thence upwardly to any point most convenient of access when the bed is completely made up.

By making the braces E E no thicker than the inner part of the slides C C, said braces will pass between the sills A and D when the latter sills are lowered, and by locating the rocker bar below the plane of said braces, the sills A and D and the slats B B' B'' may be made to occupy the same horizontal plane, when the inclined part is lowered.

The braces E serve to maintain the movable sills D in line with the stationary sills A A, and also in position longitudinally on the same. The slides C C move on the sills A, as said movable sills are raised and lowered. Said braces E, in conjunction with the pawls G and ratchets A, also serve to sustain the inclined part of the bed bottom in the various positions. The spring J tends to turn the rocker bar and engage the pawls G with the ratchets H, and by being connected to the stationary slat B'' at one end as the rocker bar approaches said slat in the arc of a circle about the lower pivots of the braces E, the tendency is to reduce the expansion of the spring, due to the turning of said rocker bar. I can thus use a shorter spring than would be required if attached to some part of the inclined part of the structure. By pulling on the cord K the upper end of the inclined portion is lifted, and the pawls disengaged, when the structure may be lowered to the position shown in Fig. 3, or otherwise adjusted. When said cord is released the spring J will at once re-engage the pawls G with the ratchets H.

What I claim is—

1. In combination with a bed bottom having a stationary portion, and a portion pivoted thereto at one end by movable pivots and adapted to be elevated at the other end, braces pivoted at their respective ends to said stationary and movable portions, a rocker bar journaled on said braces, pawls and ratchets on said bar and movable portion, and a spring

operating said rocker bar, substantially as described.

2. In a bed bottom a stationary portion, and slides on the same, a movable portion pivoted
5 to said slides at one end and adapted to be elevated at the other end, braces pivoted at their respective ends to said stationary and movable portions depending lugs on said
10 braces, a rocker bar journaled in said lugs, pawls on said rocker bar, and a spring attached to said arm at one side and a cord attached to said arm at the opposite side to engage and disengage said pawls, substantially
as described.

15 3. In a bed bottom stationary sills, transverse slats connecting the same, slides on said sills, movable sills pivoted to said slides at one end, transverse slats attached to said movable

sills, braces pivoted at their respective ends to said stationary and movable sills, lugs on
20 said braces, a rocker bar journaled in said lugs, an arm and pawl on said rocker bar, ratchets on said movable sills engaged by said pawls, a spring attached to said arm at one
25 end and to one of the stationary slats at the other end and a cord attached to said arm opposite said spring and engaging a pulley near the upper end of said movable part, substantially as described.

In testimony whereof I affix my signature in
30 presence of two witnesses.

SAMUEL G. BURLEIGH.

Witnesses:

LUTHER V. MOULTON,
L. E. FLANDERS.