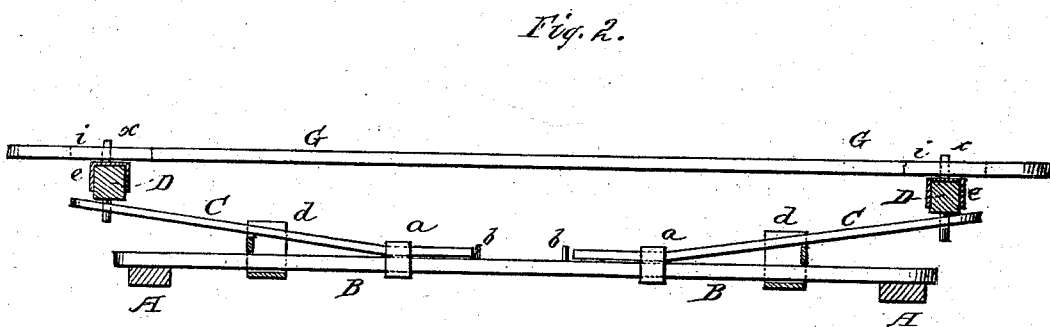
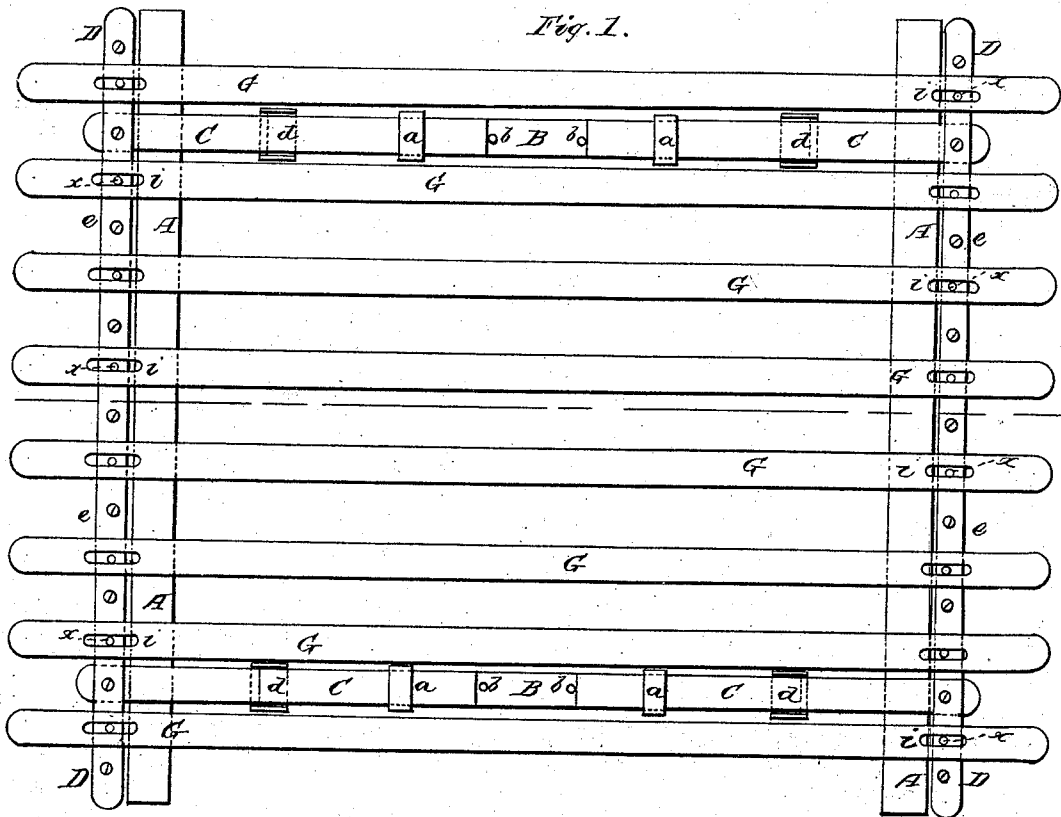


J. W. CASE.
 SPRING BED-BOTTOM.

No. 173,896.

Patented Feb. 22, 1876.



WITNESSES.

P. C. Dieterich

W. B. Inman

INVENTOR.

J. W. Case

per J. H. Alexander

ATTORNEY.

UNITED STATES PATENT OFFICE.

JAMES W. CASE, OF YPSILANTI, MICHIGAN, ASSIGNOR TO EDWARD W. GRANT AND ANDREW J. LUTCH, OF SAME PLACE.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **173,896**, dated February 22, 1876; application filed November 28, 1874.

To all whom it may concern:

Be it known that I, JAMES W. CASE, of the city of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a bed-bottom, as an improvement on Letters Patent No. 154,454, recently granted to me, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 is a central vertical section, of my bed-bottom.

The lower frame of my bed-bottom consists of two transverse end bars, A A, upon which are fastened two spring-bars, B B, forming the side pieces of the frame. On top of each spring-bar B are placed two other spring-bars, C C, the inner ends of which are inserted in clips *a a*, and rest against pins *b b* projecting from the lower spring-bar B. Each of the top

spring-bars C C rests on an adjustable fulcrum, *d*, placed between the bars B and C. The outer ends of the spring-bars C C are connected at each end of the frame by a cross-bar, D, the upper surface of which is covered by a tin or metal strip, *e*, for the slats to ride on, thus preventing almost all noise. The slats G G have elongated slots *i* in their ends, through which project pins *x x* from the upper surface of the cross-bars D D, thereby holding the slats from moving laterally.

The spring-bars C C and slats G G are all reversible, and can thus be changed whenever necessary, and more or less spring may be imparted by the adjustment of the fulcrums *d d*.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a spring bed-bottom, the combination of the spring-bars C C with clips *a a* and adjustable fulcrums *d d*, arranged to operate substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES W. CASE.

Witnesses:

S. M. CUTCHEON,
J. H. MANNING.