

B. C. VANDUZEN.

Bed-Bottoms.

No. 137,039.

Patented March 18, 1873.

Fig. 1.

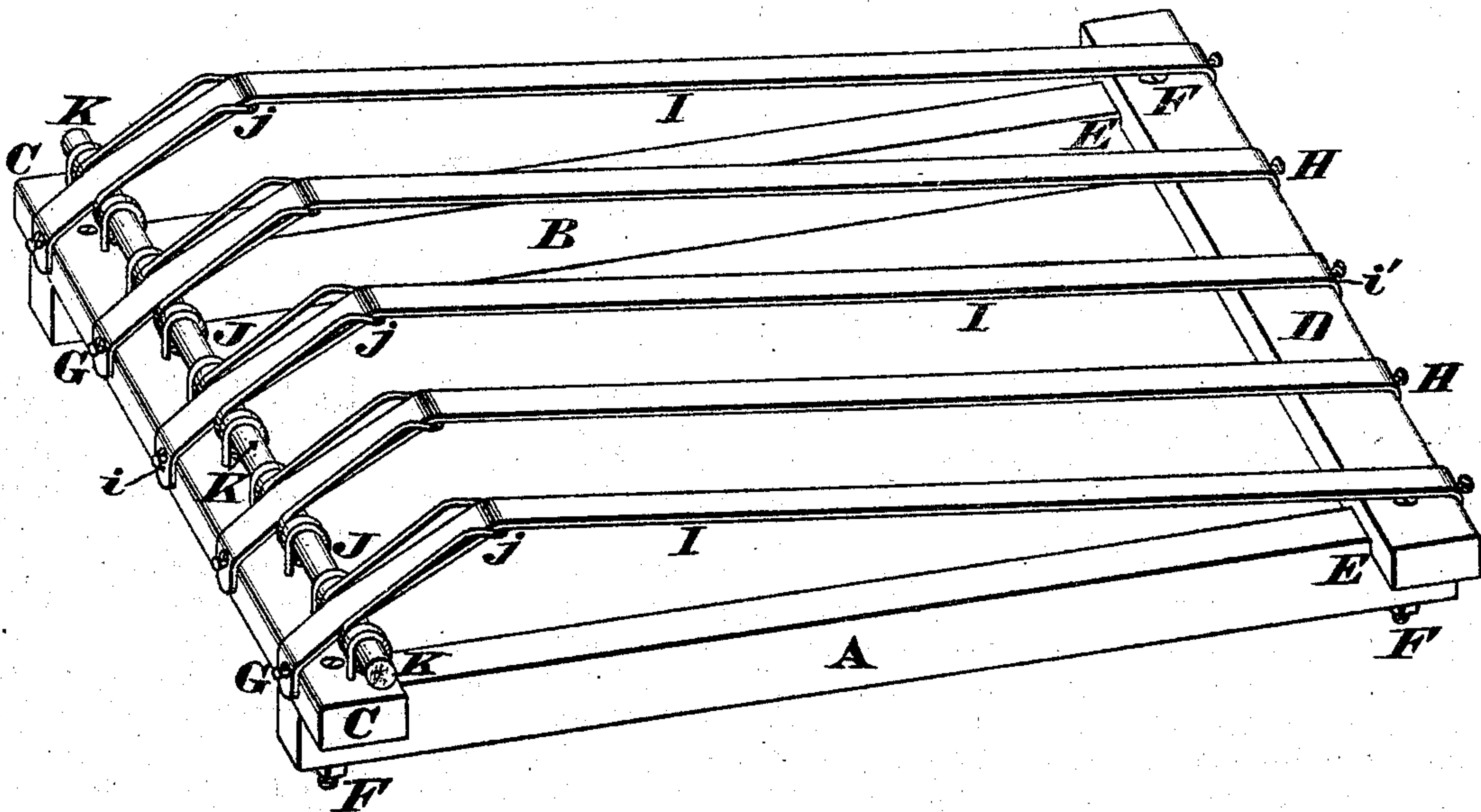


Fig. 2.

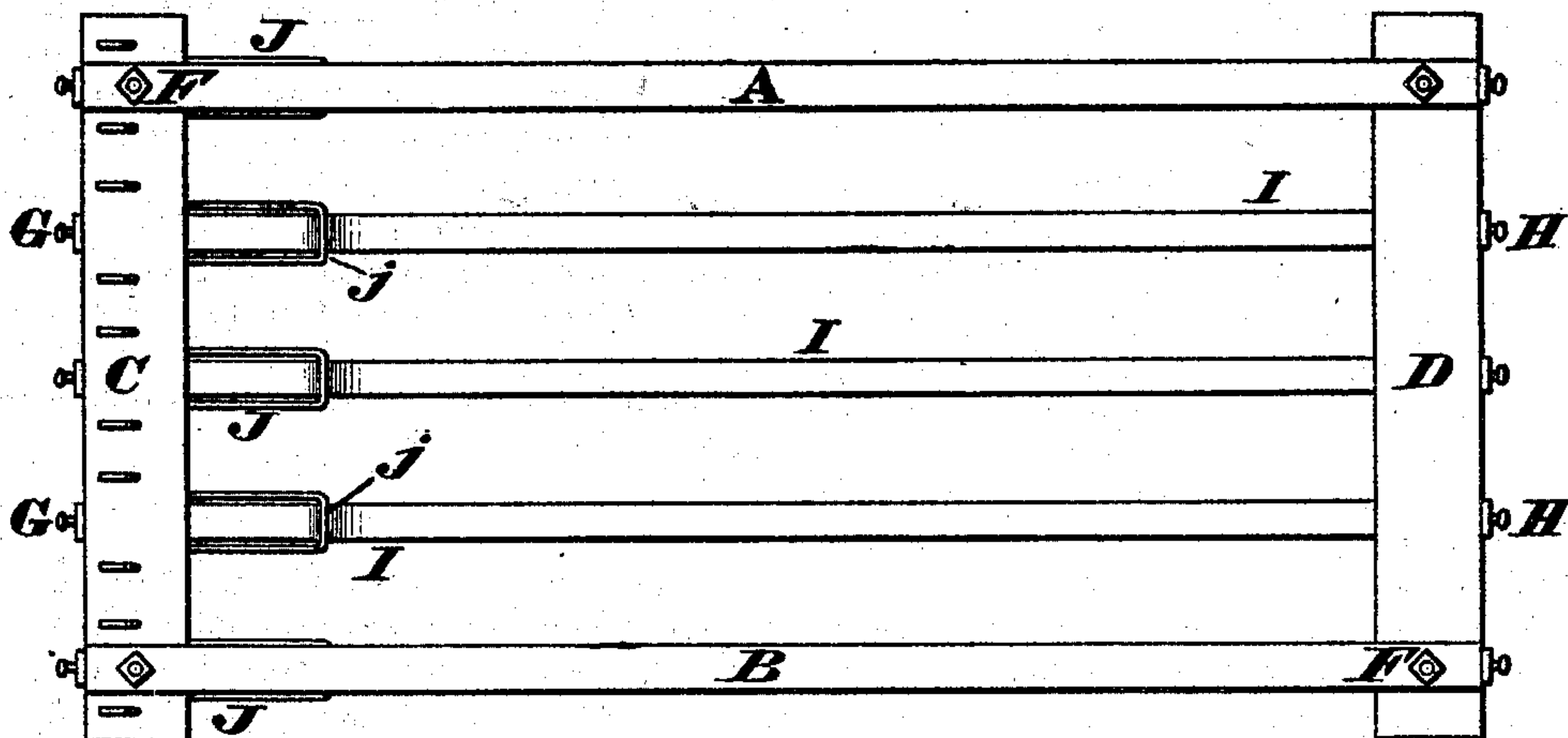
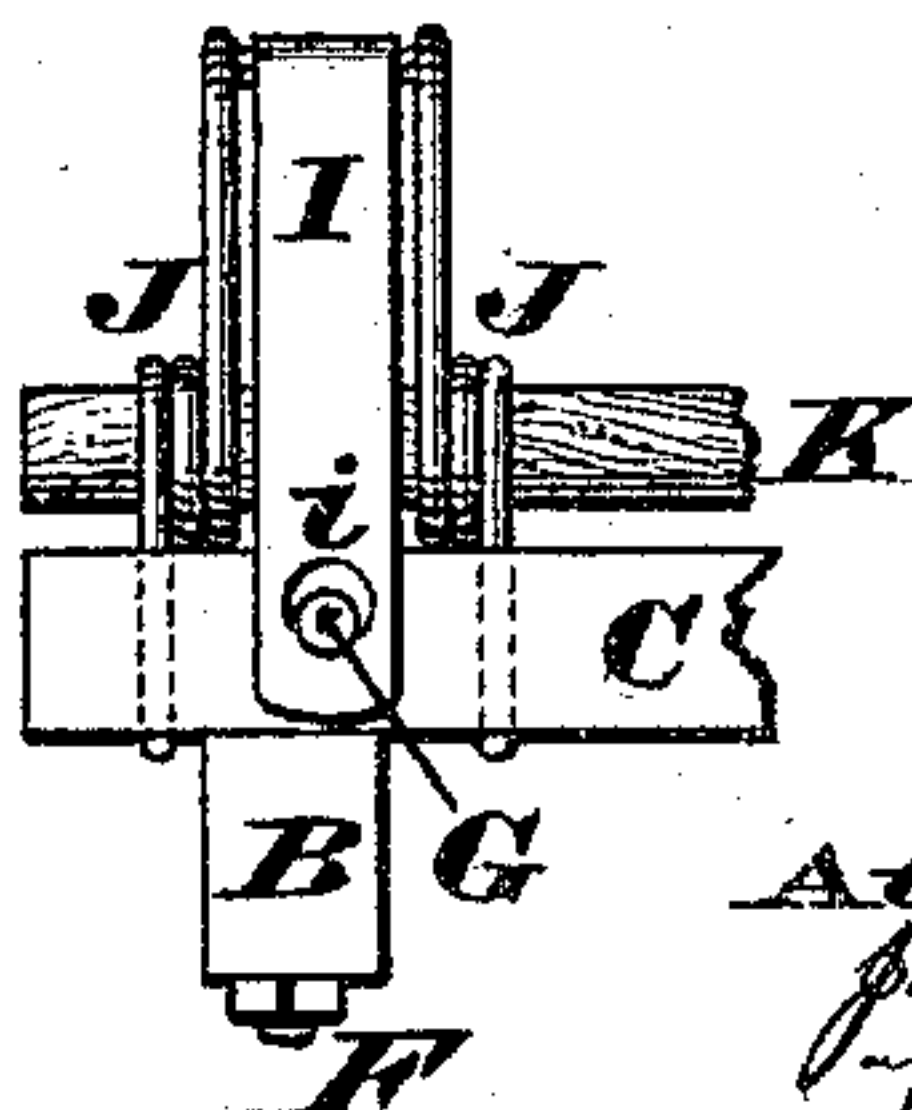
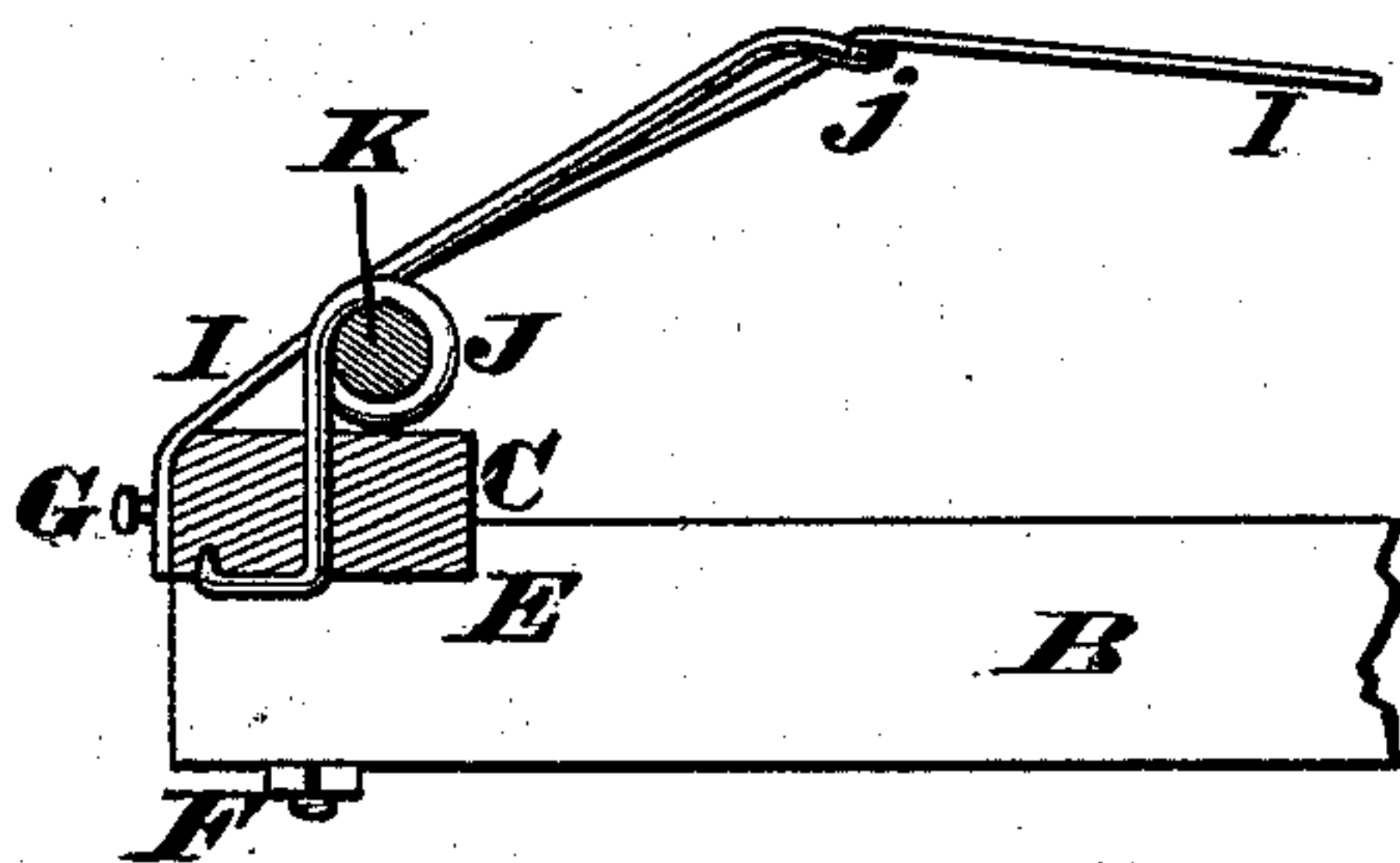


Fig. 3.

Fig. 4.



B. C. Vanduzen
by Wright Bros.
Att'ys.

Attest.
 Jas. H. Layman,
 Walter Allen

UNITED STATES PATENT OFFICE.

BENJAMIN C. VANDUZEN, OF CINCINNATI, OHIO.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. 137,039, dated March 18, 1873.

To all whom it may concern:

Be it known that I, BENJAMIN C. VANDUZEN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Bed-Bottom, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to an improved construction of those bed-bottoms whose elastic or yielding feature depends on a congeries of strips extending longitudinally of the bed, such strips, in my improvement, being upheld, near the head of the bedstead, by as many compound coiled springs, which also serve to impart the necessary tautness, and co-act with the said strips to present the desired yielding resistance to the load placed upon them.

General Description.

Figure 1 is a perspective view of a bed-bottom embodying my invention. Fig. 2 is an under-side view thereof. Figs. 3 and 4 are, respectively, a side and an end elevation, on a larger scale, of the head end of one of the springs.

A and B constitute, respectively, the side rails, and C and D the head and foot rails, composing the wooden frame to which the yielding portions are attached. For greater stability, and to enable the frame to resist the severe strain of the strips when the bottom is in use, the said head and foot pieces are girdled, at E, into, and also firmly bolted at, F, down upon the tops of the side rails in the manner shown. Secured at equal distances from each other, to the outer sides of the head and foot rails are as many series of knobs or pins G and H, as there are series of the elastic strips

I. These strips may be composed of hoop-iron or of steel, about the thickness of No. 18 wire-gage and three-quarters of an inch wide, and be placed about four inches apart. Each strip has, near each end, a hole, *i i'*, to engage over said knobs. Attached to the upper side of the head rail are a series of duplex coil springs, J, with customary connecting-web *j*, over which and over a round rod, K, inserted through said coils, the strips I are carried in the manner represented.

This bed-bottom is found to be much more resilient and easier to the user than those whose slats are simply stretched taut from end to end of the bed, and also better than those supported merely without being stretched. When used by more than one, each occupies his own place, without liability to roll over onto his neighbor.

My bed-bottom is very easily taken apart for package or transportation by simply withdrawing the bolts and unhitching the strips, when all the pieces can be placed side by side, so as to be in their most compact condition for stowage.

Claim.

I claim as new and of my invention—

The described arrangement of frame A B C D, pins G H, elastic strips I, duplex springs J, and rod K, arranged and operating as set forth.

In testimony of which invention I hereunto set my hand.

BENJ. C. VANDUZEN.

Attest:

GEO. H. KNIGHT,
JAMES H. LAYMAN.