

No. 730,393.

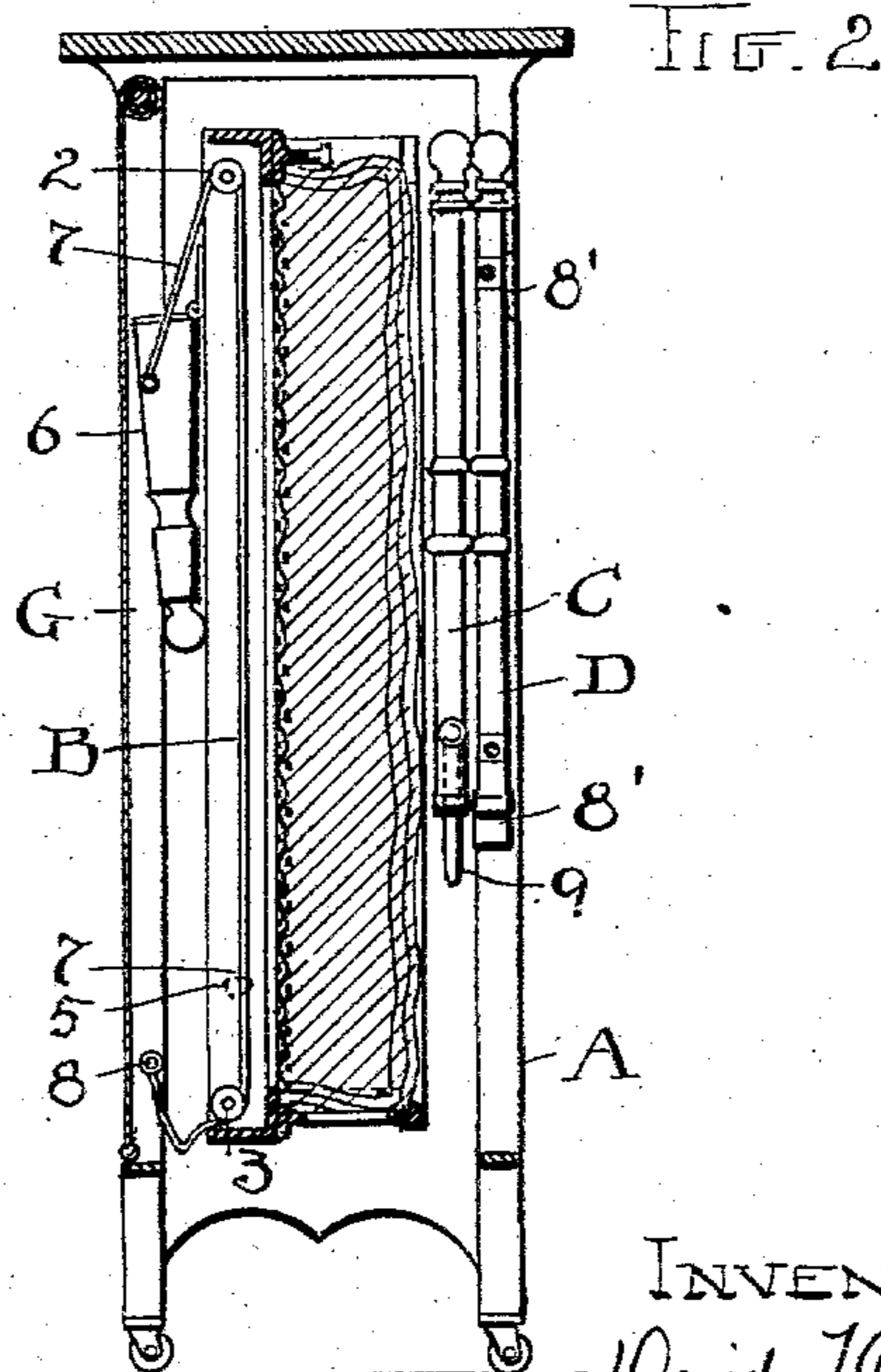
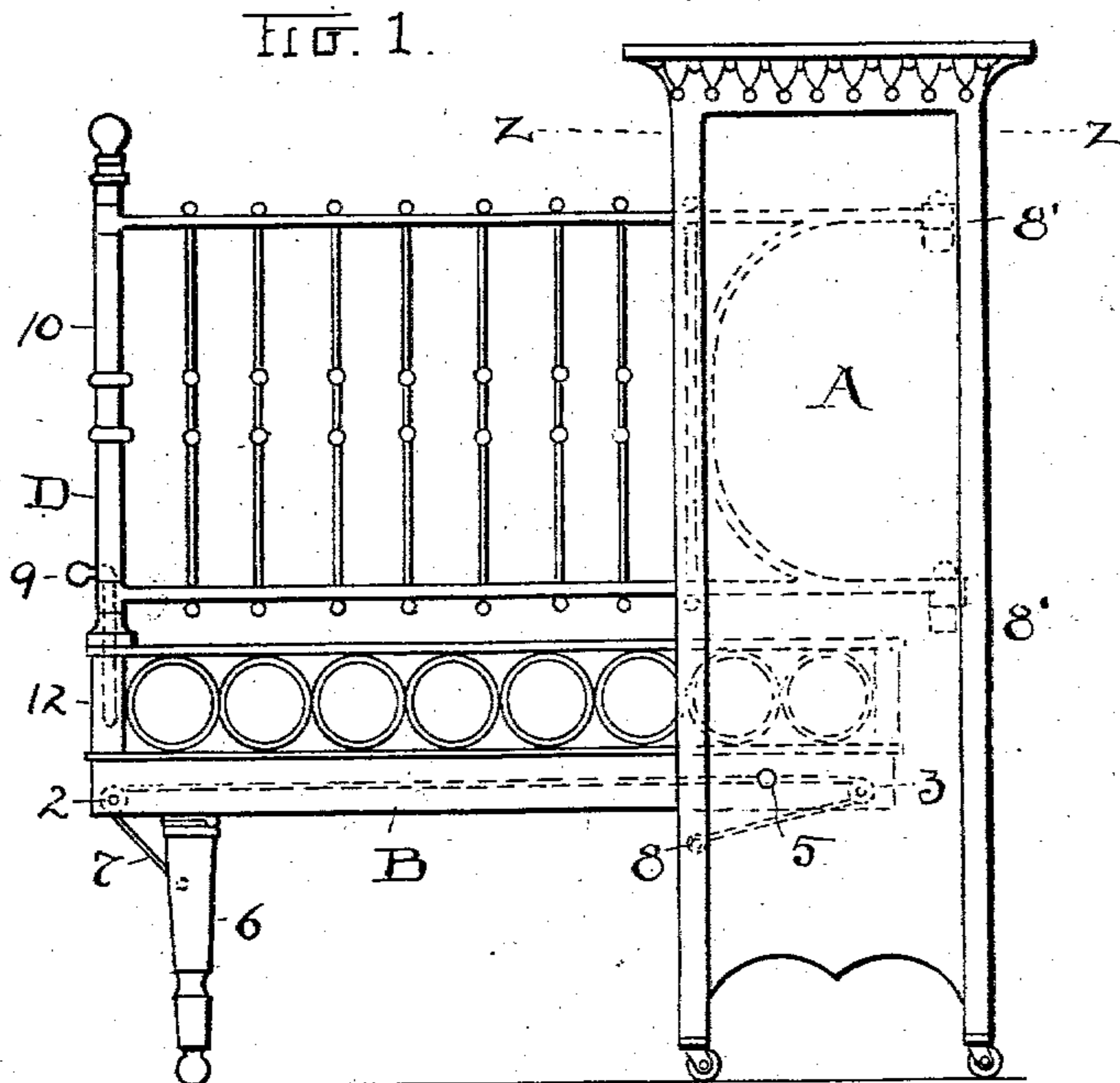
PATENTED JUNE 9, 1903.

D. T. OWEN.
FOLDING BED.

APPLICATION FILED MAR. 26, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



ATTEST.

R. B. Moser
T. M. Madden

INVENTOR.

David J. Owen

BY *H. V. Fisher*

ATTY

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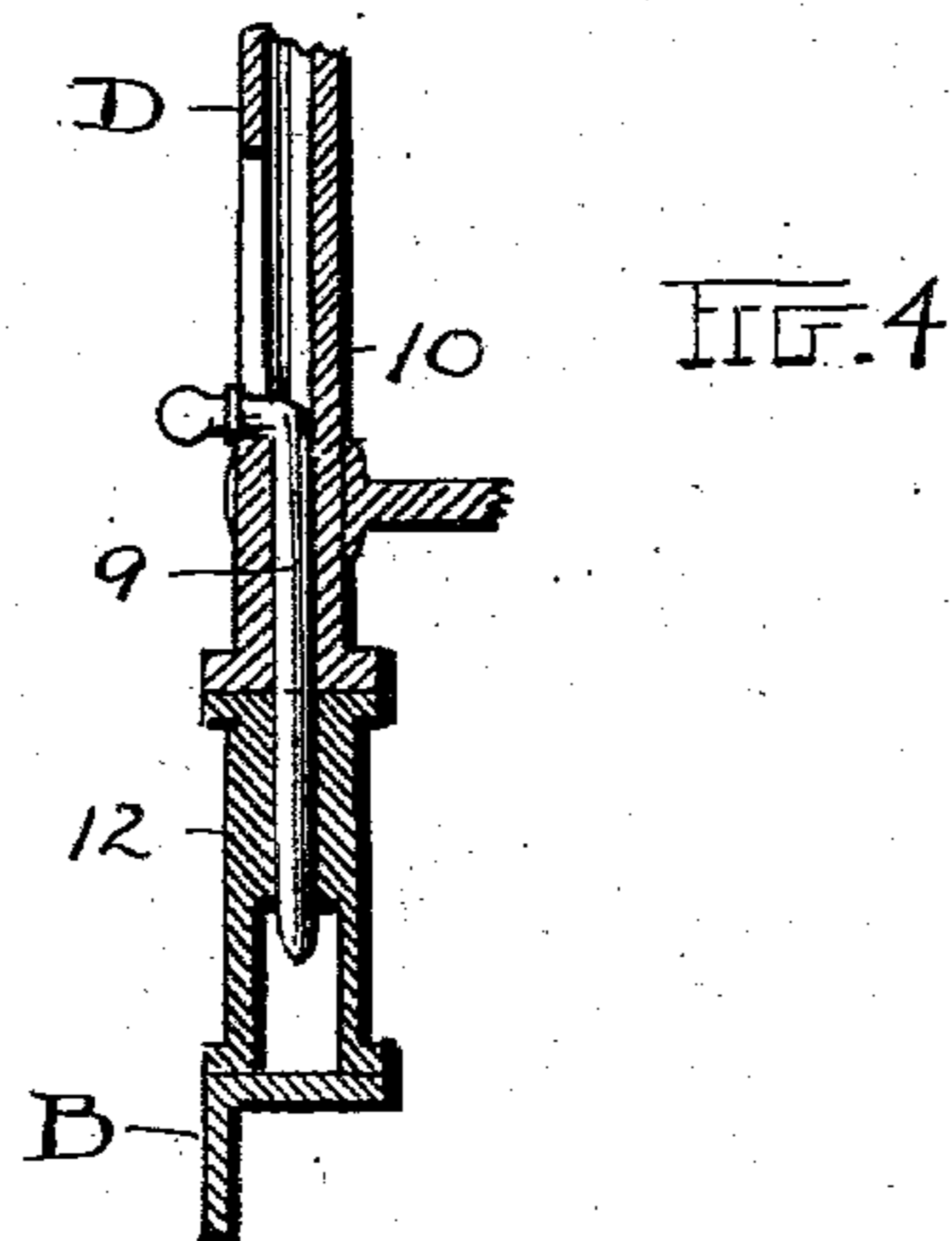
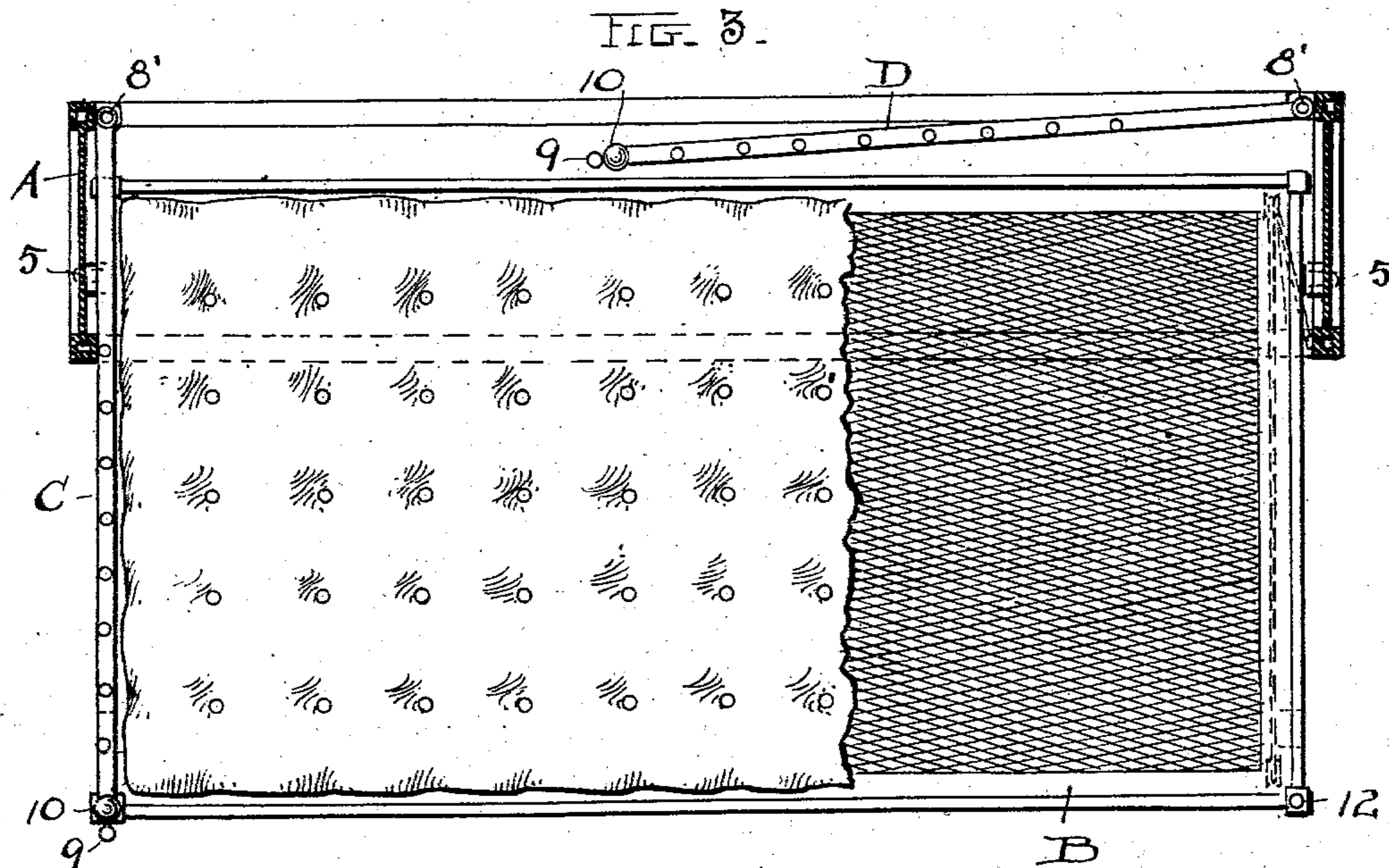
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By W. F. Fisher ATTORNEY

UNITED STATES PATENT OFFICE.

DAVID T. OWEN, OF CLEVELAND, OHIO.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 730,393, dated June 9, 1903.

Original application filed August 22, 1901; Serial No. 72,872. Divided and this application filed March 26, 1902. Serial No. 99,992. (No model.)

To all whom it may concern:

Be it known that I, DAVID T. OWEN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Folding Beds; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to folding beds and is a division of original application Serial No. 72,872.

The object of the invention is to provide a single or double bed frame, so as not only to take the bed out of the way in a room, but to have what really is an ornamental piece of furniture when it is folded.

In the accompanying drawings, Figure 1 is an end elevation of my improved bed with the parts down as in use. Fig. 2 is a vertical central elevation of the bed with all the parts raised and out of use. Fig. 3 is a plan view of the parts on line *z z*, Fig. 1, and with one of the end frames folded and the other open. Fig. 4 is a central sectional elevation of one corner of the mattress-frame and one of the posts of the end frames, with means to lock said parts together.

In the drawings, A represents a "cabinet" or "main" frame, so called, shown in this instance as of a size adapted to receive what may be considered either a single or double bed, and the said frame may be constructed to accommodate a bed on each side. In such case of course it would require a greater depth from front to rear or side to side than with a single bed and some modification in its end construction to accommodate all the parts.

For the present the invention is shown as having a bed only on one side and a cabinet-frame open or closed at its rear, but preferably open for ventilation of the bed and ornamental in design, so that it will be an attractive article of furniture in itself to a room.

B is the mattress-frame, which is shown as pivoted in the ends of the main frame at 5 and adapted to be raised into the said frame and to be dropped down into using position,

as seen in Fig. 1. When it comes to this latter position, its front legs 6 are automatically brought to a vertical and supporting position, as seen in Fig. 1, but are automatically folded when the bed is raised, as seen in Fig. 2.

Cord 7 at each end runs over suitable sheaves 2 and 3, respectively, front and rear of the mattress-frame, and one end thereof is fastened to the cabinet at 8 and the other to leg 6 below and forward of its hinge upon the frame B. So it occurs when the bed is lowered and the cord 7 is drawn tightly it will pull leg 6 into vertical position and hold it there; but when the bed is raised and the cord is relaxed the leg will gravitate to its folded position, as in Fig. 2. Both front legs fold against the bottom of the bed in this arrangement, and so they come to the front of the mattress in raised position.

The head and foot frames or what may be termed the "end frames" C and D have pivots 8' top and bottom at the rear of and above the pivots of the mattress-frames, and they are wholly independent parts, which by their position require to be folded before the mattress or bed frame is raised and take their position behind said frame. When frames C and D are out or open, they are temporarily locked with the mattress-frame—in this instance by means of a bolt 9, entered through the post 10 of the end frame into the corner of the mattress-frame.

G represents a curtain, like a window-shade in its operation and adapted to be drawn down in front of the folded bed and cut it entirely off from view.

The idea of this invention is to simplify and cheapen the construction of the bed, and to this end each frame is arranged to be separately folded and unfolded by hand, and the main frame can be of comparatively inexpensive design and material and curtained or otherwise finished or furnished at its ends.

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

1. In folding beds, a suitable upright frame, a mattress-frame pivoted thereon at its ends and adapted to be raised and lowered, and head and foot frames in said upright frame on pivots at right angles to the mattress-

frame and behind the pivots thereof, whereby the said head and foot frames can be folded behind the mattress-frame, and unfolded when said frame is down, substantially as described.

2. In folding beds, a suitable upright frame in combination with a mattress-frame pivoted in the front thereof, and head and foot frames pivoted in the rear thereof and on a plane above the mattress-frame to swing horizontally over the same, and means to temporarily lock said head and foot frames on the mattress-frame when the bed is open, substantially as described.

3. A supporting-frame and a mattress-frame pivoted therein to be raised and lowered, in combination with end frames independently pivoted on said supporting-frame above the mattress-frame, whereby said end frames are adapted to be swung into position behind the bed before the same is raised, substantially as described.

4. The supporting-frame, the mattress-frame pivoted thereon to swing into both vertical and horizontal positions, and head and foot frames pivoted on said supporting-frame in a plane behind the mattress-frame and adapted to swing separately over said frame

to working position when said frame is down for use, substantially as described.

5. The supporting-frame and the mattress-frame pivoted thereon and provided with means to support its outer portion when down in use, in combination with head and foot frames independent of the mattress-frame and pivoted on the supporting-frame above the horizontal plane of the mattress-frame, and means to engage said head and foot frames with the mattress-frame when the structure is used as a bed, substantially as described.

6. The supporting-frame and the mattress-frame pivoted thereon to be raised and lowered, and an end frame for said mattress-frame separate therefrom and independently pivoted on the said supporting-frame on pivots adapting it to swing horizontally over the mattress-frame when the mattress-frame is down, substantially as described.

Witness my hand to the foregoing specification this 25th day of February, 1902.

DAVID T. OWEN.

Witnesses:

R. B. MOSER,
T. M. MADDEN.