

25 Sheets, Sheet 1.

G. H. Eddleman,
Joining Machine.

N^o 85,436.

Patented Dec. 29, 1868.

Fig. 1.

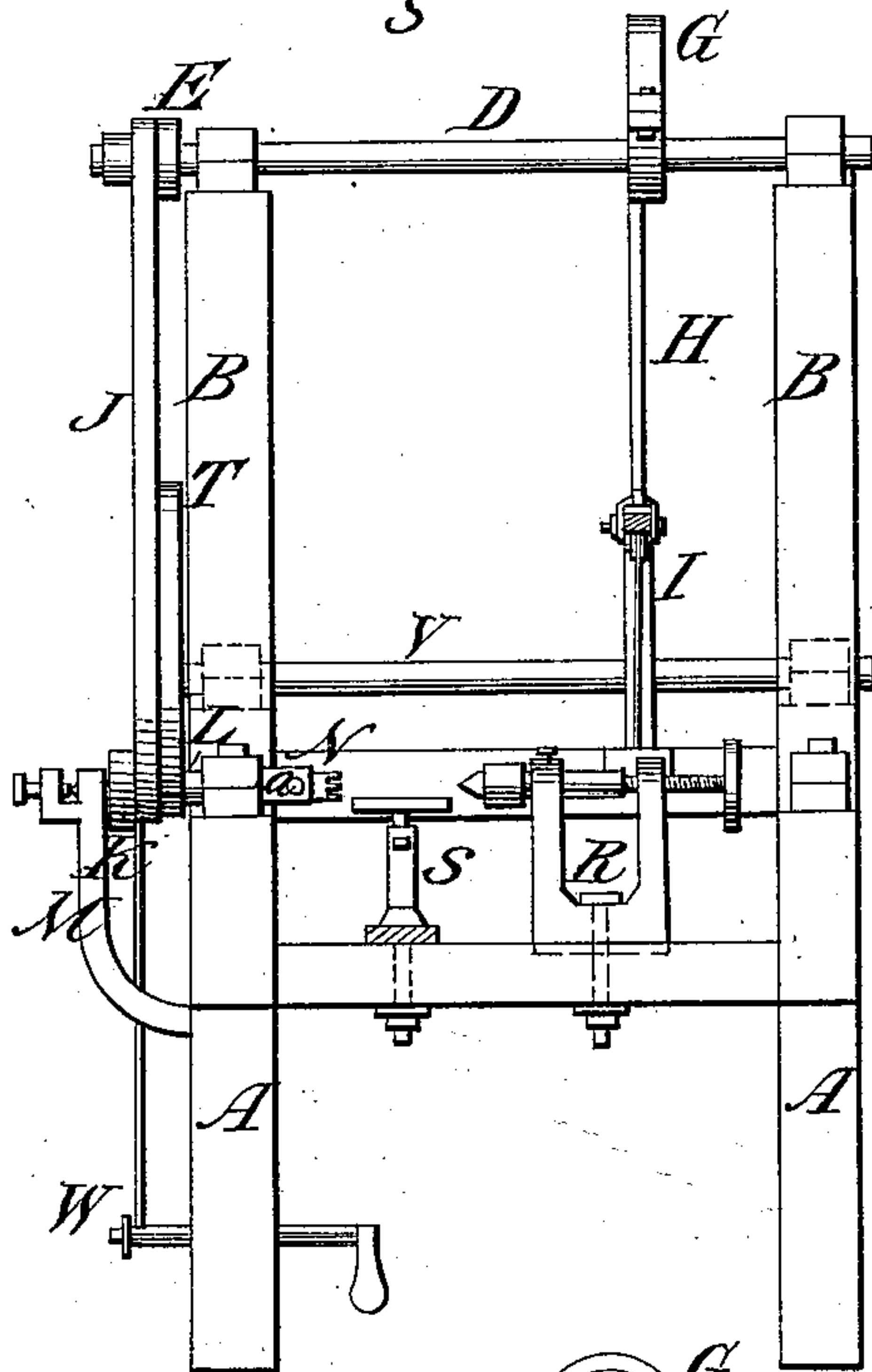
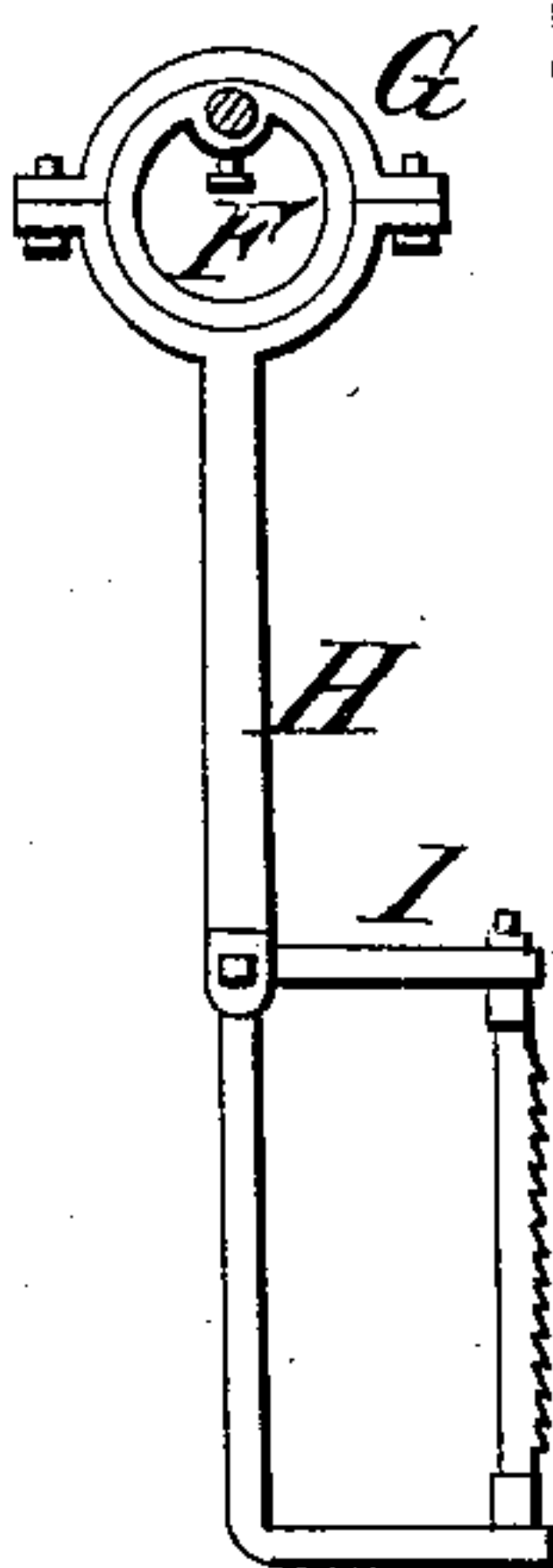


Fig. 2.



Witnesses:

Leopold Evers
A. A. Eddleman

Inventor.

Geo. H. Eddleman
per Alexander Mason
Attys.

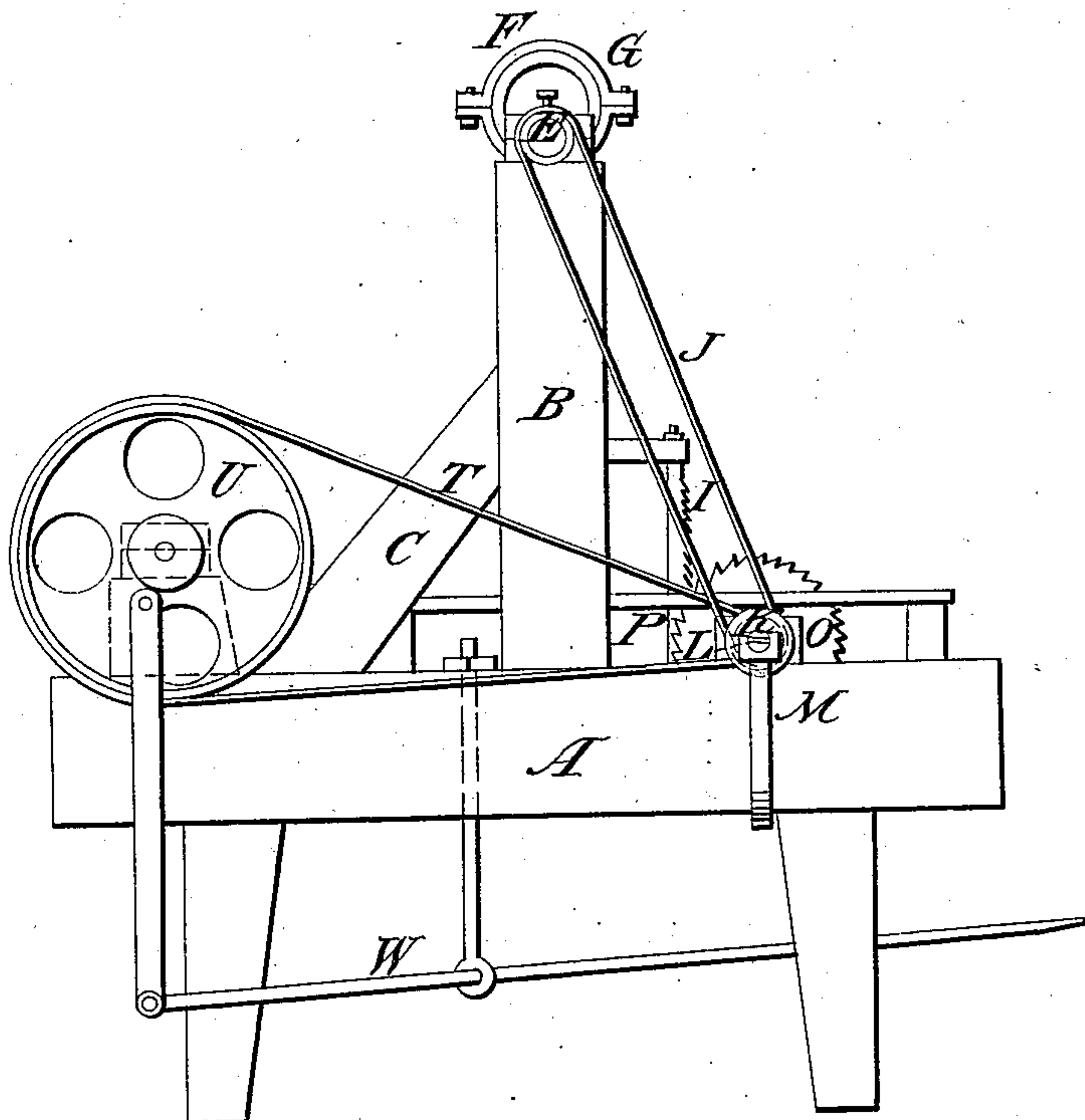
2 Sheets. Sheet 2.

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Joining Machine.

N^o 85,436.

Patented Dec. 29, 1868.

Fig. 3.



Witnesses:

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GEORGE H. EDDLEMAN, OF ATLANTA, GEORGIA.

Letters Patent No. 85,436, dated December 29, 1868.

IMPROVEMENT IN SAWING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE H. EDDLEMAN, of Atlanta, in the county of Fulton, and in the State of Georgia, have invented certain new and useful Improvements in Combined Circular and Jig-Saw and Lathe; and 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.

The nature of my invention consists in the construction of a machine, which a carpenter, engaged in putting up a house, or doing any other carpenter-work, can carry with him to the place where such work is being done; also, for the use of cabinet-makers, where they have no power in their shop, or to be attached to the line of shafting where power is employed.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a front view of the machine when used as a lathe;

Figure 2, a side view of the jig-saw; and

Figure 3 is a side view of the machine, showing both circular and jig-saw.

A represents a frame, of suitable size and material, near the centre of which are two upright standards, B B, strengthened by braces C C, as shown in fig. 3.

On top of the standards B B, a shaft, D is placed, having its bearings in journal-boxes placed thereon, and one end provided with a pulley, E.

On the shaft D is a cam-wheel, F, around which a sectional ring, G, is placed; and to the lower side of this ring a rod, H, is firmly secured.

At the lower end of the rod H the jig-saw I is pivoted, which saw is secured, as usual, in a frame, said frame moving in a groove on a cross-bar in the frame A.

From the pulley E a band, J, connects with a pulley, K, on a short shaft, L, which has its bearings in a journal-box on the side of the frame A, and in the upper end of a bent bar, M, which latter is secured to said frame.

In the inner end of the short shaft L is a head, N, in which is secured the shaft on the circular saw O, by means of a set-screw, a, said shaft resting in a journal-box on the other side of the frame A.

A table, P, provided with slots, for the two saws to work in, is placed on top of the frame A.

By removing this table, and the set-screw a in the head, N, the machine is easily changed to a lathe. In that case, I insert in the head, N, an ordinary lathe-centre, placing the back centre, R, at a suitable distance from the former, on the shears, underneath the saw-mandrel, and the tool-rest S on the shears, in the usual manner.

From the pulley K, on the shaft L, a band, T, leads around the driving-wheel U, which is secured to the end of a shaft, V, in the rear part of the frame A.

The machine can be used in a shop where there is steam or water-power, by applying a belt from the line-shafting in the shop to a pulley to be attached to a balance-wheel, which will be placed on the end of the shaft V, which now has the driving-wheel U.

Where there is no "power," it can be worked by the treadle W, as shown in the drawings, or by hand, by a handle inserted in the driving-wheel U, after removing the treadle-attachment.

Having thus fully described my invention,

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

The frame A, constructed as herein described, and provided with the eccentric-pulley and shaft D, the short shaft L, one end of which is suitably centred, and the other end provided with a clutch, and the driving-shaft V, whereby I am enabled to form a machine combining in one a circular saw, a jig-saw, and a lathe, as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 25th day of July, 1868.

G. H. EDDLEMAN.

Witnesses:

THO. W. CHANDLER,
JAS. S. NICHOLS.