

(No Model.)

C. DRAKE.

DRAG SAW.

No. 300,582.

Patented June 17, 1884.

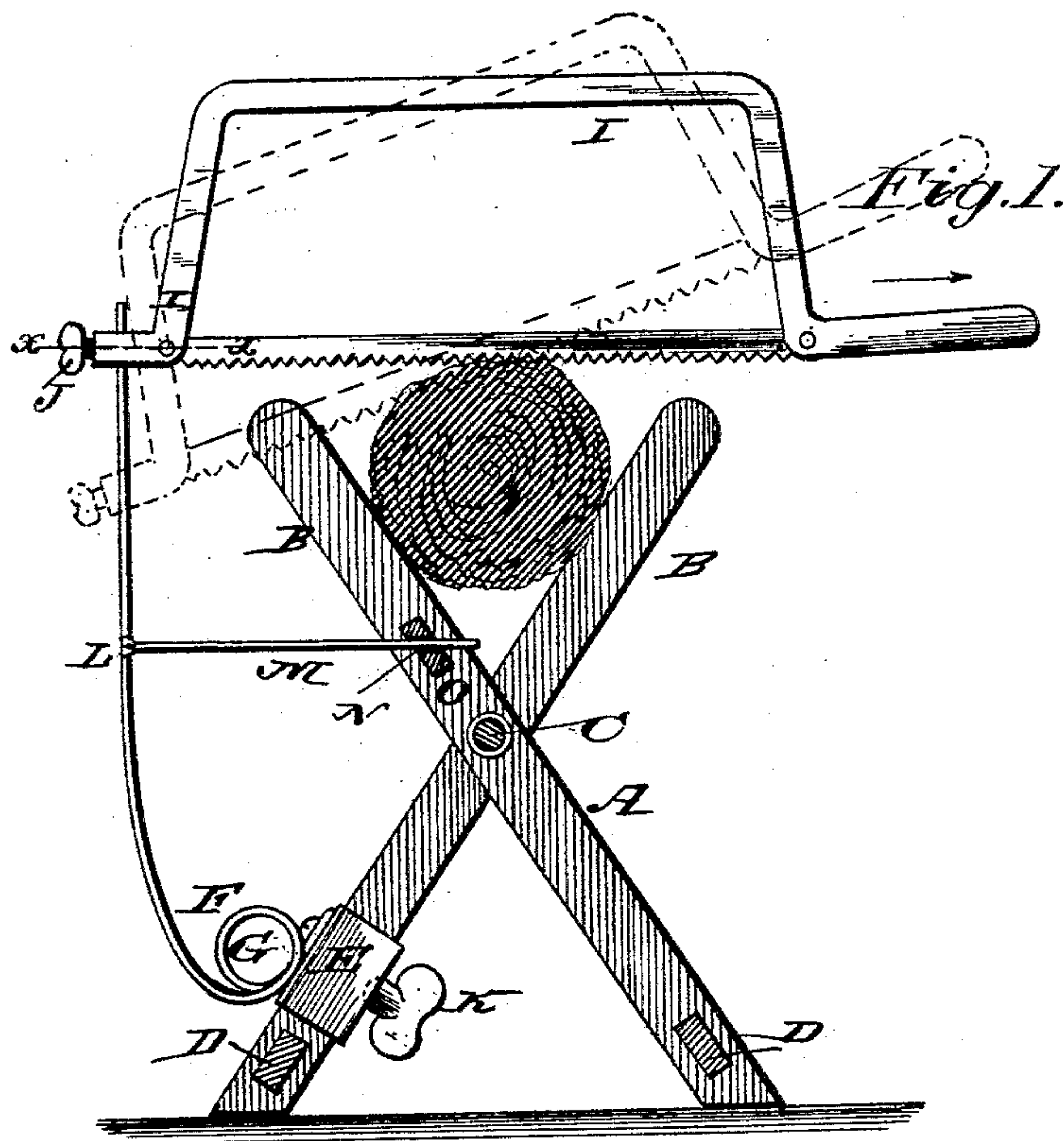


Fig. 2.

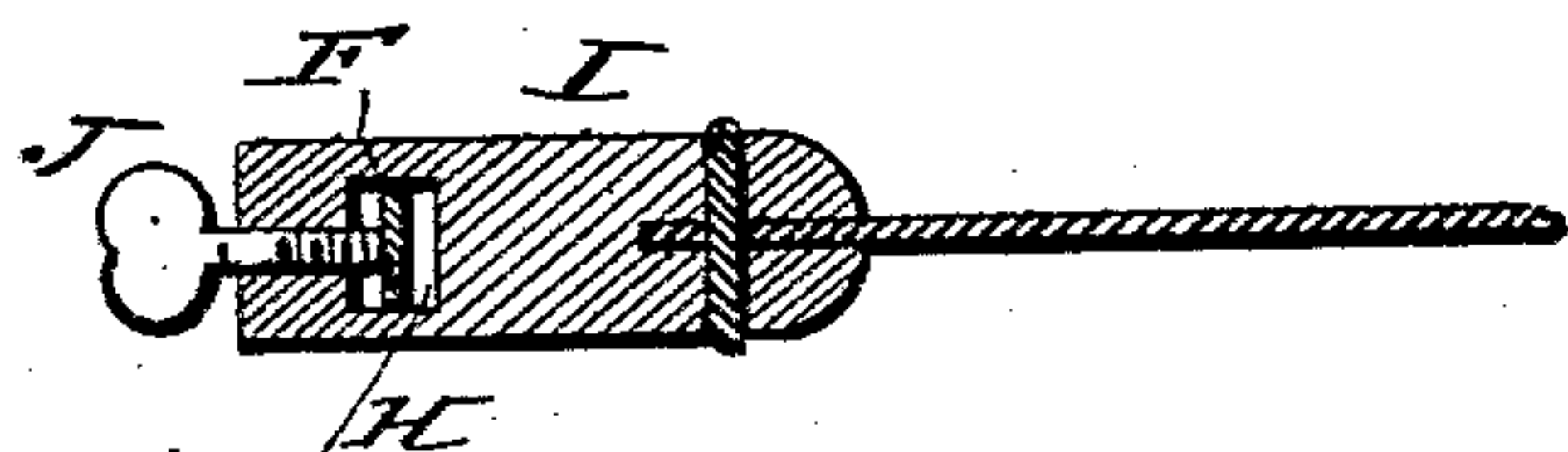
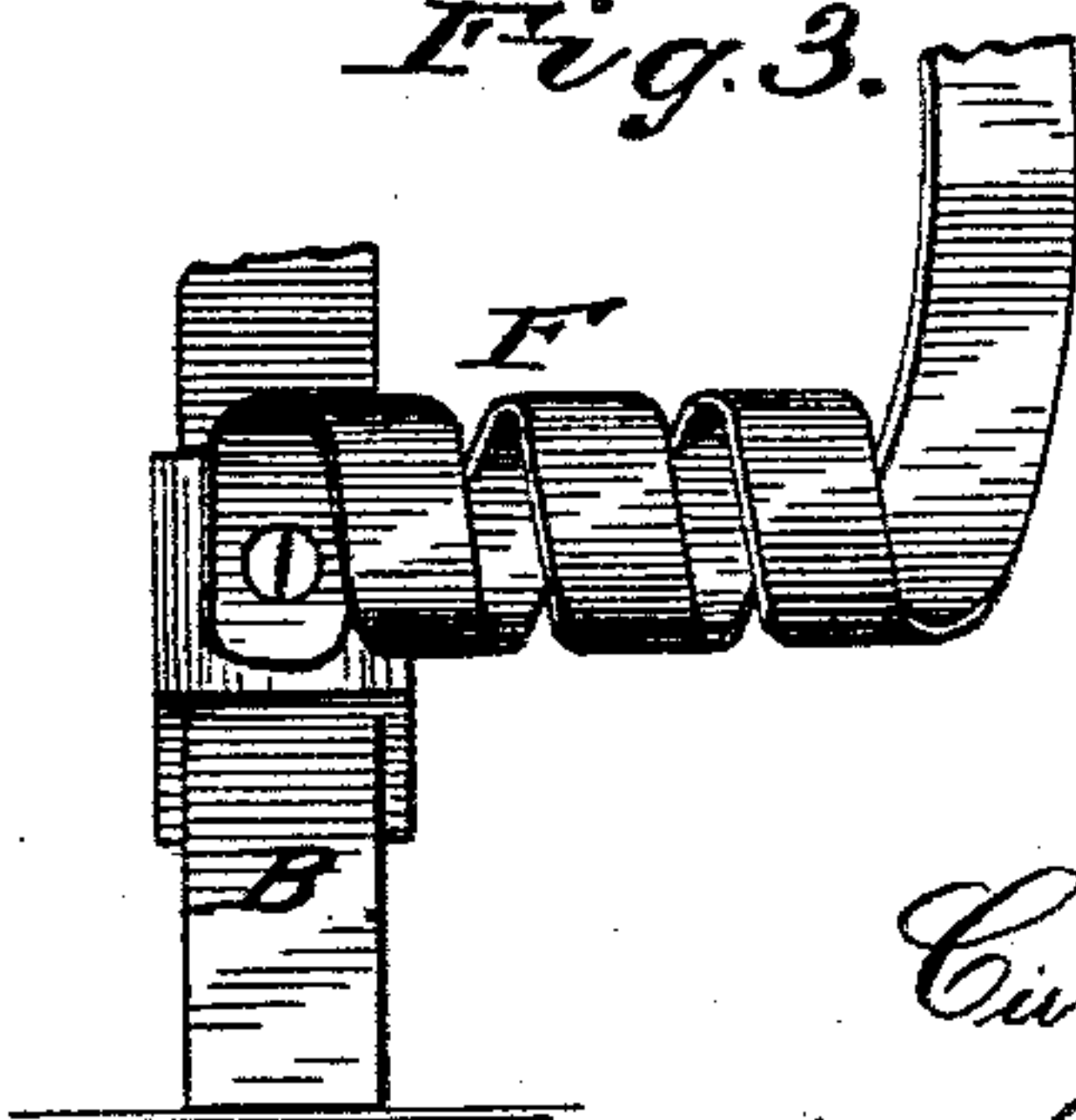


Fig. 3.



WITNESSES:

Med. L. Diäterich.
Wm. Bagger.

INVENTOR.

INVENTOR.
Cunningham Drake,
by: Lewis Ragger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CUNINGHAM DRAKE, OF PHILADELPHIA, PENNSYLVANIA.

DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 300,582, dated June 17, 1884.

Application filed May 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, CUNINGHAM DRAKE, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Drag-Saws; and I do hereby 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, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a transverse sectional view of a saw-horse to which my invention has been applied, the saw and spring being shown in elevation. Fig. 2 is a sectional view taken through the end of the saw on line *x x* in Fig. 1; and Fig. 3 is a detail view, in perspective, of the sleeve by means of which the spring is connected to the saw-horse.

The same letters refer to the same parts in all the figures.

This invention relates to an improved attachment for saw-horses, having for its object to facilitate the operation of the saw, and constituting practically one of that class of machines which are currently known as "drag-saws;" and it consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the saw-horse, which is constructed, in the usual manner, of end bars, B B, mounted pivotally upon a transverse brace, C, and the lower ends of which are connected by means of strengthening-braces D, in such a manner, however, as not to interfere with the folding of the device when not in use.

E indicates a sleeve mounted to slide upon one of the braces B, as clearly shown in Fig. 1 of the drawings. Suitably attached to this sleeve, by means of a screw, rivet, or other fastening device, is a flat spring, F, which is bent in such a manner as to form a coil, G, the rings of which are laid flat upon the said sleeve adjoining each other, as shown in the detail view Fig. 3. The free end of the spring F extends in an upward direction and through a slot, H, in the front end of the saw-frame, I, where it may be secured by means

of a thumb or set screw, J. Normally, however, the said spring slides freely in the slot, as will be presently more fully described. The sleeve E is provided with a thumb-screw, K, by means of which it may be permanently secured in any position to which it may be adjusted upon the leg B of the saw-horse.

At the point L upon the spring F which is located intermediately between the coil G and the upper end of the said spring is pivoted an additional or supplemental spring, M, which extends inwardly toward the saw-horse and through an opening or slot, N, in a brace, O, connecting the two end legs of the frame of the said saw-horse. This spring simply serves as a guide to prevent displacement of the several parts of this invention, and it has the additional function of imparting greater strength and elasticity to the main spring F.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation of my invention will be easily understood. When the saw is drawn back in the direction of the arrow shown in Fig. 1, the springs are strained, so that on the forward or operating stroke of the saw they will serve to assist the action of the latter and facilitate the work of the operator. As the sawing progresses, the spring F will pass inwardly through the slot H in the saw-frame, so that the action of the saw will at no point be obstructed; or, if desired, the front end of the saw-frame may be lowered before operation is commenced to substantially the position shown in dotted lines in Fig. 1 of the drawings, in which case the screw J may be tightened, and the saw thus be securely connected to the spring. For logs of different thicknesses the sleeve E may be adjusted by means of the thumb-screw K.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a drag-saw, the combination, with a saw-horse, comprising the pivoted frames B B, of a sleeve adjustable upon one of the legs of the said frames, and a spring attached to the said sleeve and adapted to be connected adjustably with the front end of the saw-frame, substantially as set forth.

2. The combination of a saw-horse, a sleeve connected adjustably to one of the pivoted

frames of the same, a spring secured to the said sleeve and coiled in front of the same, and a saw having a slot adapted to receive the free upper end of the spring, and a thumb-
5 screw, whereby the said spring may be securely connected with the saw, substantially as set forth.

3. As an improvement in drag-saws, the combination of a saw-horse comprising a pair
10 of pivoted frames, a sleeve connected adjustably to one of the legs of one of the frames, a spring secured to the said sleeve and extending upwardly through a slot in the front end

of the saw-frame, and a supplemental spring connected pivotally to the main spring, and
15 extending through an opening in a brace connecting the legs of one of the pivoted frames, substantially as herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature
20 in presence of two witnesses.

CUNINGHAM DRAKE.

Witnesses:

LOUIS BAGGER,
AUGUST PETERSON.