

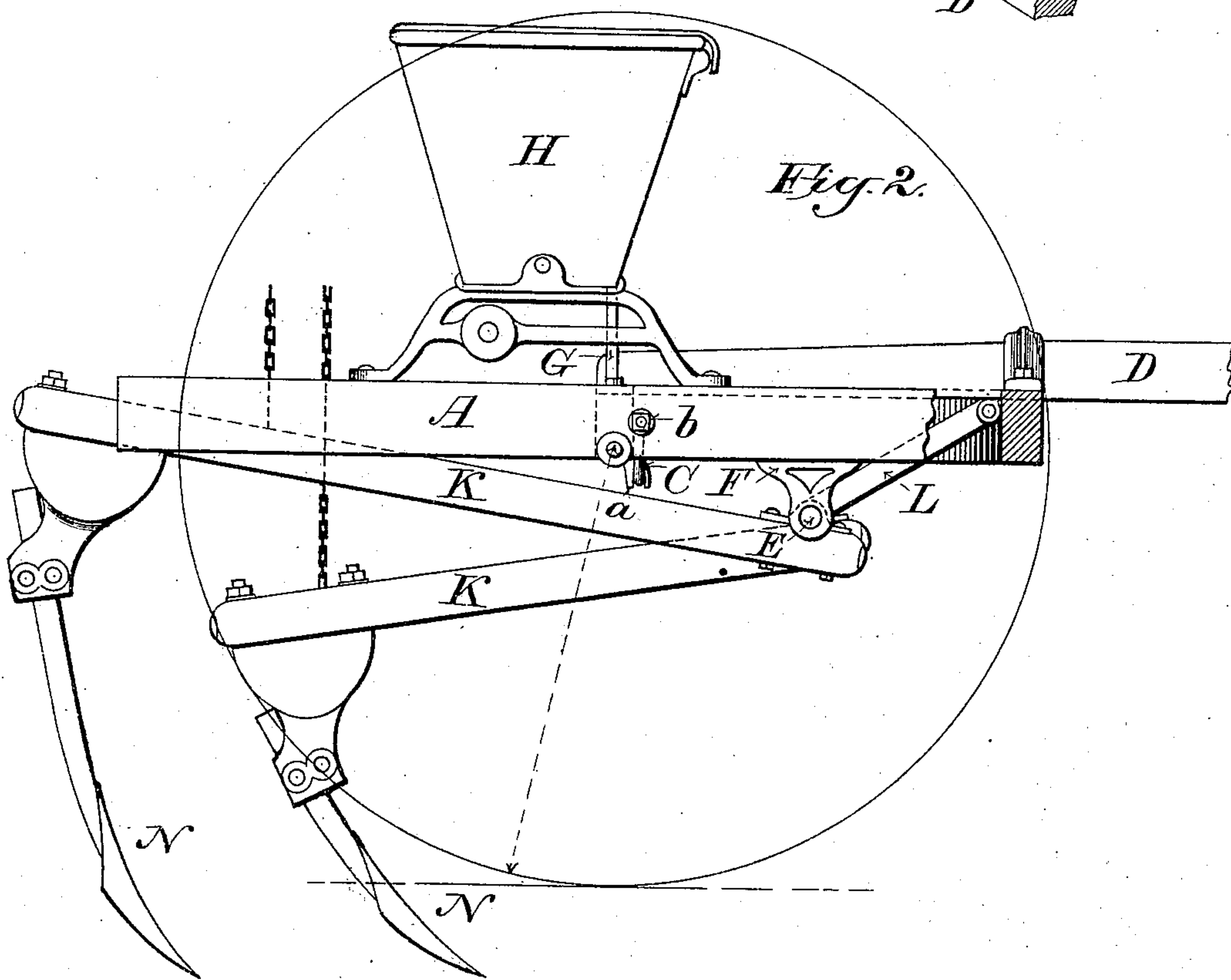
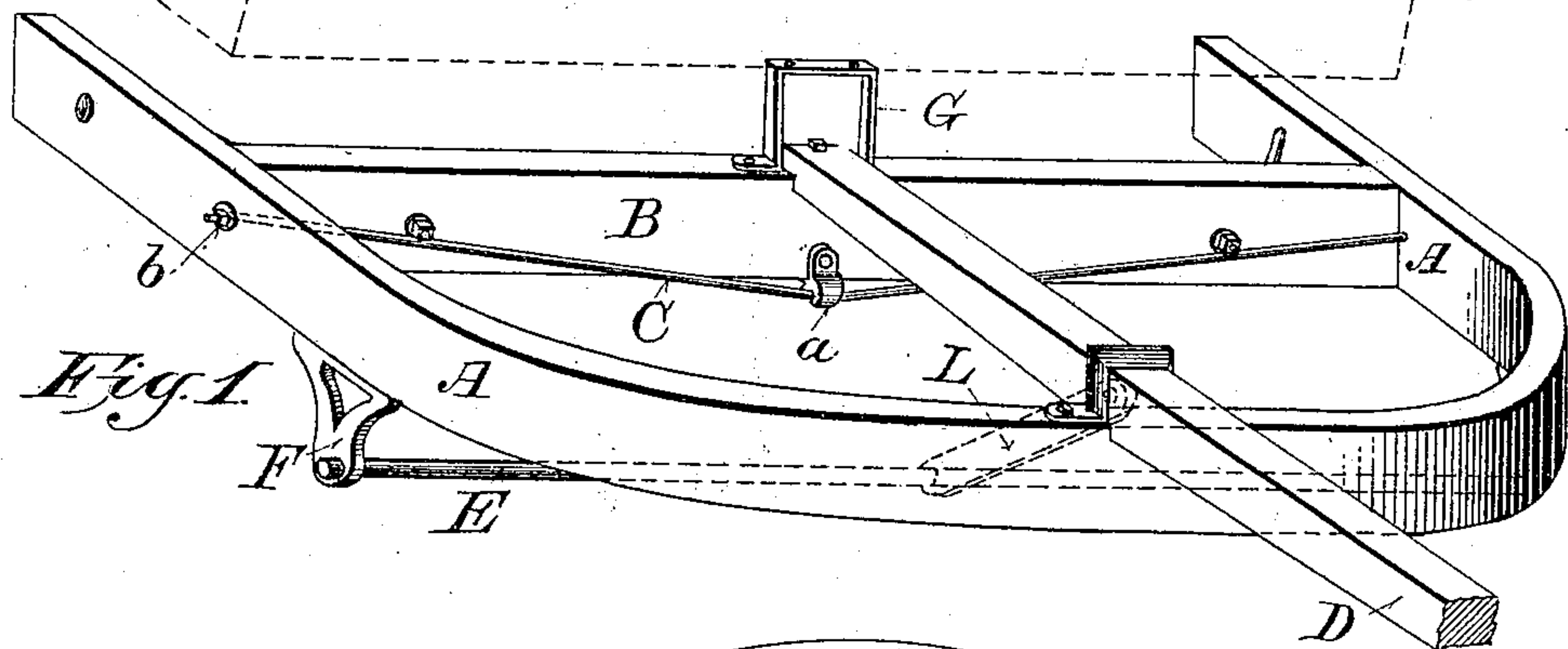
(No Model.)

G. D. ROWELL.

CULTIVATOR AND SEEDER FRAME.

No. 320,970.

Patented June 30, 1885.



Witnesses:  
Chas. R. Goss.  
George Goll.

Inventor:  
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# UNITED STATES PATENT OFFICE.

GUILFORD D. ROWELL, OF APPLETON, WISCONSIN.

## CULTIVATOR AND SEEDER FRAME.

SPECIFICATION forming part of Letters Patent No. 320,970, dated June 30, 1885.

Application filed August 11, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, GUILFORD D. ROWELL, of Appleton, in the county of Outagamie and State of Wisconsin, have invented certain  
5 new and useful Improvements in Cultivator and Seeder Frames; 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 pertains to make and use the same, reference  
10 being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention consists, essentially, of a self-bracing frame for cultivators or seeders, which is composed of a curved piece forming the front and ends of the frame, and a cross-piece or girt connecting the sides, a cross rod  
15 or bar secured at the ends in supports depending from said frame, and a truss-rod, by which the center of the frame and seed-box is sustained.

The objects of my invention are, first, a simple, cheap, and strong frame for seeders and cultivators, and, second, a device by which  
25 a long frame may be prevented from sagging at the center.

In the accompanying drawings like letters refer to the same parts in both figures.

30 Figure 1 is a perspective view of my improved frame, and Fig. 2 is a side elevation of the same, in connection with drag-bars and hoes and a seed-box of ordinary construction.

A is the curved portion of the frame, forming the front and ends in a single piece. I  
35 prefer to give the piece A the form of a semi-circle in front or a gradual curve, so as not to impair the strength of the timber of which it is made.

40 Between the limbs of the piece A, which form the ends of the frame, is secured the cross-girt B, to which is secured at the center of the lower front edge the stud *a*.

Through the sides of the frame, toward the  
45 top thereof and just in front of girt B, horizontal perforations are made to receive the ends of the iron truss-rod C, which passes down underneath the stud *a* at the center of the frame, and is provided at one end with a  
50 screw-thread and nut, by means of which said rod may be drawn taut and the frame raised and supported at the center.

D is the tongue or pole, secured at its rear end to the center of the girt B, and fastened to the top of the curved piece A at its center, 55 as shown in Fig. 1.

E represents an iron cross-rod or shaft supported in brackets F, depending from and fastened to the ends of the frame-piece A. A  
60 brace, L, secured to the pole D or to the front of the frame and fastened to the cross-rod E, supports it at the center, relieving the frame-piece A of considerable strain occasioned by the hoes or teeth N N, which are connected through draft-bars K K with said cross-rod  
65 E, as shown in Fig. 2.

Heretofore in cultivator or seeder frames which have a curved front piece the drag-bars carrying the teeth or hoes have been connected directly with that part of the frames. 70 By my arrangement the greater part of the draft comes through the brace L directly upon the pole.

For long seeder-frames I employ a brace, G, which rests upon and is fastened to the 75 center of the girt B, and bears against the bottom of the seed-box H, thereby sustaining the same with its contents, the truss-rod C preventing the sagging of the girt B underneath it. The position of the seed-box H relative to the frame is shown by dotted lines in  
80 Fig. 1.

I do not claim by itself, in cultivator or seeder frames, either the curved piece A or the truss-rod C, inasmuch as each of these parts 85 separately has been heretofore shown in connection with machines of this class.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 90

1. The combination, in a cultivator or seeder frame, of the curved piece A, forming the front and ends of said frame, the cross-girt B, provided near its center with stud *a*, truss-rod C, secured at its ends in the sides of said frame 95 and passing underneath said stud, and the cross rod or bar E, to which the hoes and drag-bars are pivoted, substantially as and for the purposes set forth.

2. The combination, with a seeder-frame 100 provided with the cross-girt B, of the truss-rod C, secured in the sides of said frame and passing underneath a stud, *a*, projecting from and secured to the central part of said girt, the



seed-box H, and the brace G, inserted between said seed-box and the girt B, substantially as and for the purposes set forth.

3. The combination, in a cultivator and seed-  
5 er frame, of the curved part A, forming the front and ends of said frame, the cross-girt B, connecting said ends, the cross-rod E, the ends of which are supported in brackets depending from and secured to the ends of said frame,  
10 and the brace L, supporting said cross-rod at

the center, 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.

GUILFORD D. ROWELL.

Witnesses:

LEOPOLD HAMMEL,  
WALTER L. CONKEY.