

No. 735,722.

PATENTED AUG. 11, 1903.

S. K. DENNIS.
ELEVATOR FRAME.

APPLICATION FILED DEC. 19, 1902.

NO MODEL.

Fig. 1.

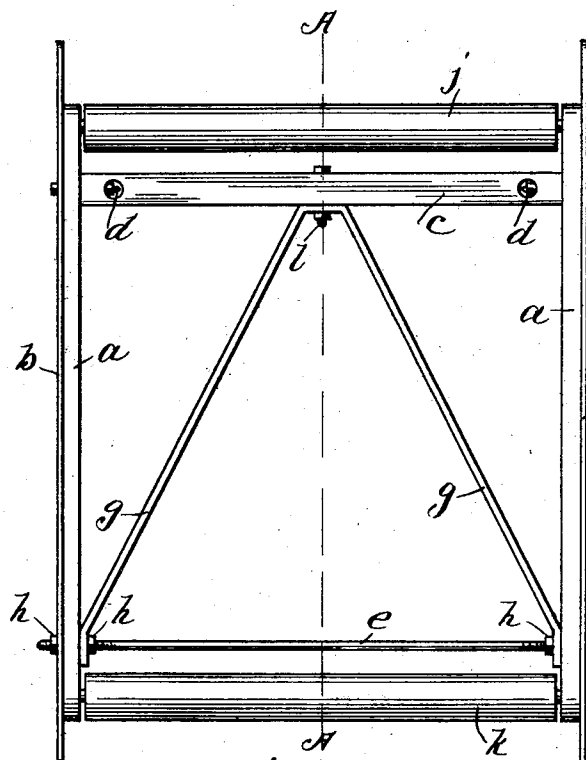


Fig. 2.

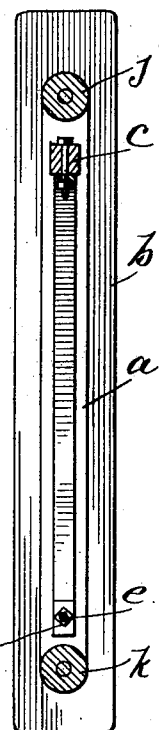


Fig. 3.

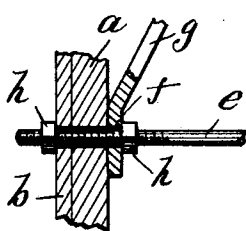


Fig. 4.

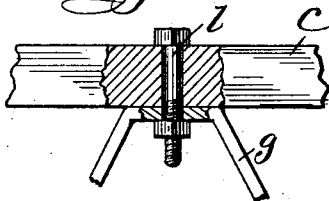
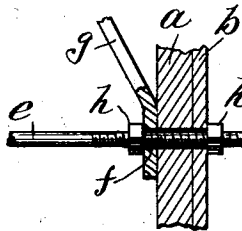


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

SAMUEL K. DENNIS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE PLANO MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

ELEVATOR-FRAME.

SPECIFICATION forming part of Letters Patent No. 735,722, dated August 11, 1903.

Application filed December 19, 1902. Serial No. 135,841. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL K. DENNIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Elevator-Frames, of which the following is a specification.

My invention is concerned with a novel construction for a frame for the elevator of grain-binders and is designed to produce a device of the class described which shall be simple in its construction, cheap to manufacture, and withal light, rigid, and durable.

To illustrate my invention, I annex hereto a sheet of drawings in which the same reference characters are used to designate identical parts in all the figures, of which—

Figure 1 is a plan view of the frame detached. Fig. 2 is a sectional view on the line A A of Fig. 1, and Figs. 3, 4, and 5 are sectional details showing how the angular metallic brace is secured to the wooden frame.

The customary wooden side pieces *a* are secured on the inside of the metallic plates *b*, and the pieces *a* are secured together and spaced apart at their upper ends by the wooden cross-piece *c*, which is secured to the pieces *a* and plates *b* by the anchor-bolts *d*. The lower ends of the strips *a* are spaced apart by the metallic tie-rod *e*, the ends of which are threaded and passed through the apertures *f* of the metallic brace-bar *g* and through suitable apertures in the pieces *a* and plates *b*, the two sets of which are spaced apart the desired distance by means of the set-nuts *h*, cooperating with the screw-threaded ends of the rod *e*. The canvas-rollers *j* and *k* are journaled in the bearings formed in the ends of the strips *a* in the customary manner. The brace-bar *g* is composed of an angular metallic strip extending between the cross-bar *c* and the tie-rod *e* and with the latter forming substantially an equilateral triangle, the flattened upper end of the angular bar *g* being secured to the cross-piece *c* by the bolt *l*.

By the construction herein shown and described it will be apparent that I have devised a light and simple yet extremely rigid frame, which is so braced by the bar *g* as to prevent any possibility of its being racked by any of the various strains to which it may be subjected in use. Moreover, the construction employed enables the structure to be assembled without any especial care and with the assurance that when so assembled the frame will be properly trued up.

While I have shown my invention as embodied in the form which I at present consider best adapted to carry out its purposes, it will be understood that it is capable of modifications and that I do not desire to be limited in the interpretation of the following claims, except as may be necessitated by the state of the prior art.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. An elevator-frame consisting of the strips *a* and plates *b* connected at their upper ends by the rigid cross-piece *c* and at their lower ends by the tie-rod *e*, and braced by the angular bar *g*; substantially as and for the purpose described.

2. An elevator-frame consisting of the strips *a* and plates *b* connected at their upper ends by the cross-piece *c* and at their lower ends by the tie-rod *e* having the threaded ends, and secured to and braced by the angular metallic bar *g* secured at its angle to the center of the cross-piece *c* and at its ends by the nuts on the tie-rod *e* which passes through the holes in the end thereof; substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL K. DENNIS.

Witnesses:

FRED E. NAGEL,
C. W. LEFFINGWELL.