No. 706,820. Patented Aug. 12, 1902.

C. H. HANSEN.

AWNING PROTECTOR.

(Application filed May 20, 1901.)

(No Model.) 2 Sheets—Sheet 1.

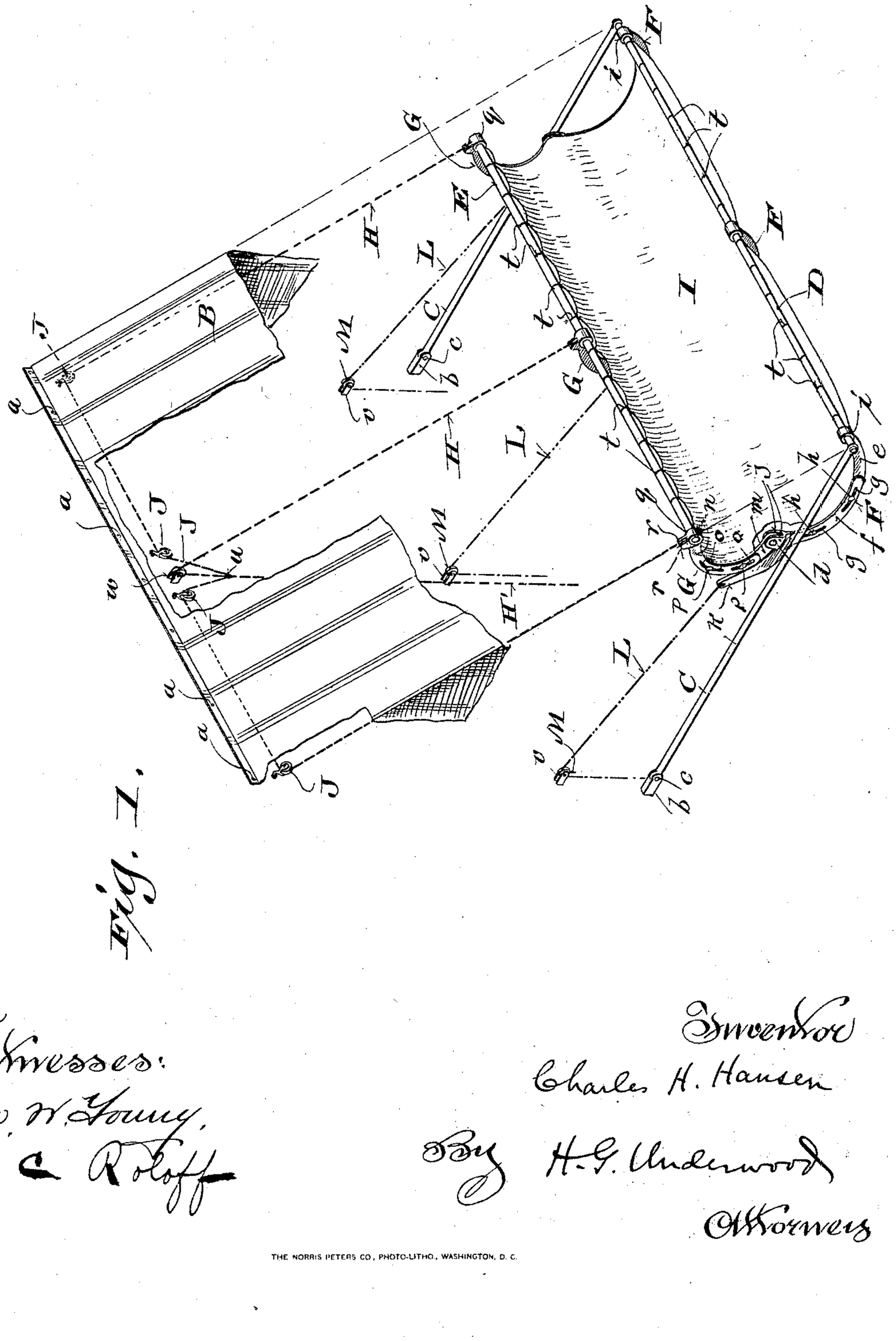

Fig. 1.

Witnesses:
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B. C. Roloff

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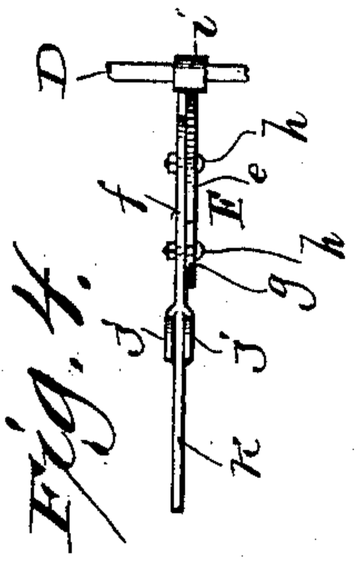

Fig. 4.

Fig. 3.

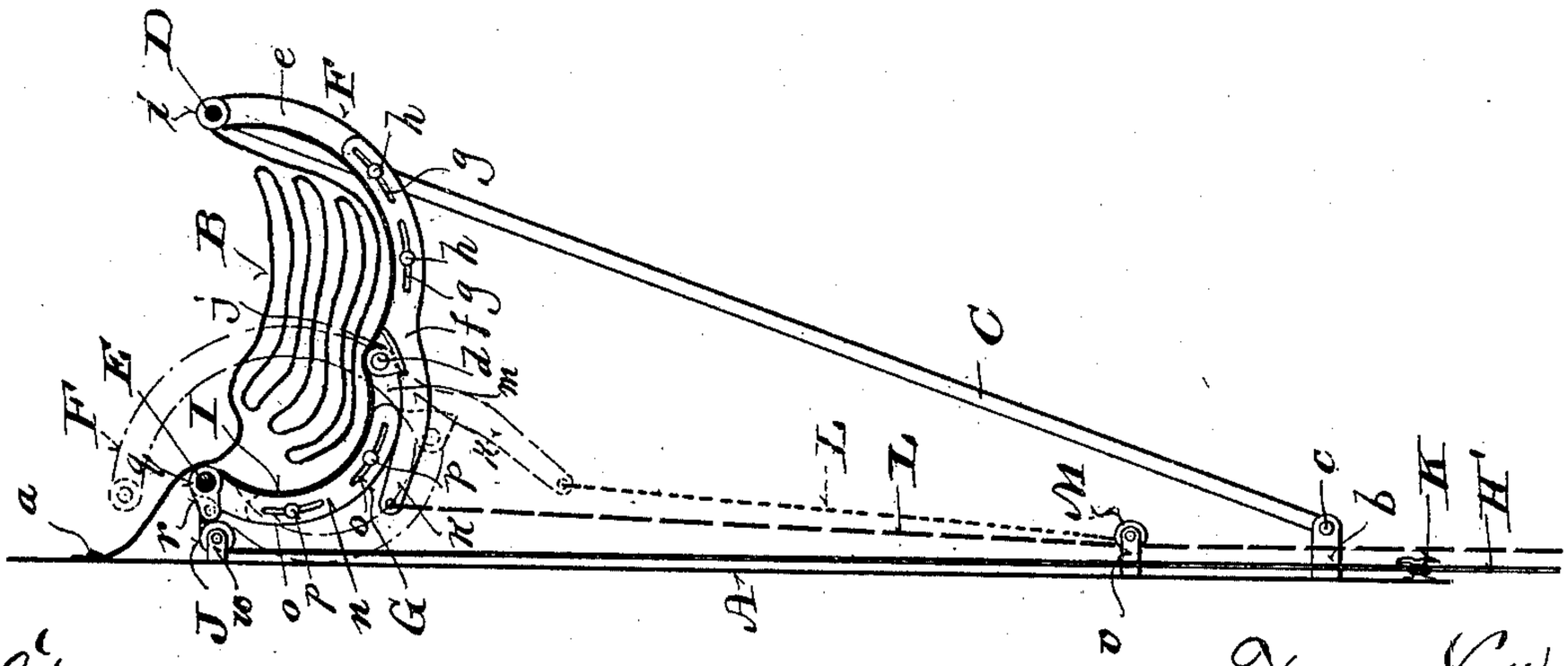

Fig. 2.

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UNITED STATES PATENT OFFICE.

CHARLES H. HANSEN, OF RACINE, WISCONSIN.

AWNING-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 706,820, dated August 12, 1902.

Application filed May 20, 1901. Serial No. 61,008. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. HANSEN, a citizen of the United States, and a resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Awning-Protectors; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to devices for covering awnings when they are drawn up, so as to protect them from the weather when not in use; and it consists in certain peculiarities of construction and combination of parts, as will be fully set forth hereinafter in connection with the accompanying drawings and subsequently claimed.

In the said drawings, Figure 1 is a perspective view of my said protecting device in the position it occupies when the awning is down and in use, the awning being shown as partially broken away to better illustrate certain details of construction and arrangement. Fig. 2 is a partly-sectional side elevation illustrating in full lines the awning raised ready to be covered or protected and showing in dotted lines the protecting device in position covering the awning. Fig. 3 is a partly-sectional side elevation of the parts in the position shown in Fig. 1. Fig. 4 is a detail plan view of part of said protecting device.

Referring to the drawings, A indicates the line of the front wall of the building to which the awning and its frame are attached.

B represents the awning, whose upper transverse edge is secured to said building, as by the nails or screws *a a a*.

C C represent the lower arms of the awning-frame, which are pivoted, as shown at *c*, to brackets *b*, projecting from the wall A, the outer ends of these arms C being united by a rod D, preferably of metal, which rod D is connected to another transverse rod E, preferably of wood, by a series of jointed curved supports, to be next described. Each of said curved supports is composed of an outer and inner part F G, pivoted together, as shown at *d*, and each of said parts is preferably made in two pieces, as shown, for adjustability of length as required. The outer part F comprises a curved section *e*, against which is placed another curved section *f*, both of said sections being formed with arc-shaped slots *g* therethrough, by means of which slots and bolts *h*, passing therethrough, the two sections may be rigidly secured together after the desired adjustment. The section *e* is formed with a collar *i* at its outer end for the reception of the hereinbefore-named rod D, and the section *f* is provided with a pair of upward-extending ears *j j* and a rearward continuation *k*, which forms a lever, as hereinafter described. The inner part G comprises a curved section *m*, whose forward end is received between the described ears *j j* of the section *f* of the outer part F and secured in place by the said pivot *d* and another curved section *n*, both of said sections being formed with arc-shaped slots *o* and being secured together after adjustment by bolts *p* like the two sections of the outer part. The rear end of the section *n* terminates in a collar *q* for the reception of the hereinbefore-named rod E and a backward-extending pair of ears *r r*, which are united by a pin *s*, around which is secured one end of a cord or cable H, which extends back to a pulley on the wall A and thence down, as hereinafter described. There are as many of these jointed curved supports F G as deemed necessary, according to the width of the awning in any case, and in Fig. 1 I have shown three supports, one at each end and one at the center of the described rods D E.

I represents a piece of stout canvas or other suitable fabric of proper length and width to correspond to the distances apart of the rods and curved supports in any given case, the said fabric resting on the said supports and being secured, as by the cords or loops *t t t*, to the rods D E. In practice I usually secure brass eyelets along the edges of the canvas about eight inches apart for the more convenient tying of the canvas or other cover to the said rods.

The operation of my invention will be readily understood from the foregoing description of its construction taken in connection with the accompanying drawings. The described cords or cables H after passing around pulleys J J, attached (as by brackets *w* or otherwise) to the wall A, are preferably united at the point *u*, so that a single cord or cable H′ may depend within reach of the operator, and a simple pull upon this last-named cord or cable H′ will raise the awning-frame and attachments from the position shown in Figs. 1 and 3 to the position shown in Fig. 2, and to secure the parts in this raised position one or

two turns of the cord or cable H′ may be taken around the stud K or the said cord may be fastened in any other suitable manner, and as the awning-frame rises the awning B will drop and fold into the supported cover I, as indicated in Fig. 2. Each lever *k* of the described jointed curved cover-supports F G has attached to its rear end a cord or cable L, which passes back and around a pulley M, attached to the wall A, (as by being journaled in a bracket *v*, as shown,) and thence down to within reach of the operator below, (said cords or cables L being, if desired, united together in similar fashion to the described union of the cords or cables H,) and by a pull upon the cords or cables L the outer curved members F are shifted from the position shown in full lines to the position shown in dotted lines in Fig. 2, thereby compressing the folds of the awning B and covering and protecting the same.

Awnings protected by my device will last longer, even when left out all winter, than unprotected awnings which are taken down and stored during the inclement seasons, and as the device is always ready for use and entirely out of the way there is no necessity for such taking down and storing, as the awning is just as safe outside the building when protected by the cover I as if it was inside, as it is guarded from snow and water, and hence not liable to decay from such cause, besides which dust, dirt, and the like are carefully excluded and birds will find no opportunity to nest therein, and hence there is a great saving of time, trouble, and storage-room by the use of my device, and the awning is always ready and in position for use when needed. Again, by the reason of the awning simply resting in natural folds on the smooth surface of the canvas cover I all wear and friction on an awning consequent upon the use of ropes in drawing it up, as ordinarily practiced, is obviated, and hence an awning will last much longer when protected by my device and be of uniformly good condition always, and the sagged or baggy condition of an awning raised in the old-time manner is done away with, with all its accompanying defects consequent upon having its surface exposed to high winds and the like.

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

1. An awning-frame and awning, in combination with a movable jointed supporting device pivotally attached to said frame, for holding said awning when raised, and cords or cables for drawing the outer end of said supporting device over the awning supported thereby.

2. An awning-frame, in combination with a series of jointed supports, pivotally secured to said frame, a cover secured to said frame and resting on said supports, and cords or cables for raising said frame and folding said jointed supports.

3. The combination with a supporting structure, of an awning-frame pivotally secured thereto; an awning secured to said structure and to said frame; a series of jointed supports, secured to said frame beneath the outer end of said awning; a cover secured to said frame and resting on said supports, beneath said awning, for receiving the latter when raised; and cords or cables for raising said frame and awning, and folding said jointed supports and said cover over said awning when raised.

4. In an awning-protector, the combination with the awning-frame having swinging lower arms and a pair of transverse rods united by a series of jointed supports, of levers projecting backward from the outer members of said supports; and series of cords or cables, one series leading from the inner members of said supports, and the other series leading from said levers.

5. In an awning-protector, the combination with the awning-frame having swinging lower arms and a pair of transverse rods, of a series of jointed supports centrally pivoted together and the extreme ends of said jointed supports being pivotally connected to said transverse rods; a lever projecting backward from the outer member of each jointed support; a cover secured to said transverse rods, and resting on said jointed supports; and series of cords or cables, one series being connected to the rear ends of the inner members of the supports, and the other series being connected to the rear ends of said levers.

6. The combination with an awning-frame having swinging lower arms and a pair of transverse rods, of series of jointed supports uniting said rods, each support having an inner and outer member pivotally united, and each member comprising two sections formed with slots therethrough, and adjustably bolted together, and the outer members having backward-projecting levers, together with series of cords and cables, connected, respectively, to the said inner members, and to the said levers.

7. An awning-frame and awning in combination with a jointed supporting device, pivotally attached to the outer end of said frame, and secured to the outer end of said awning, and cords or cables for raising said frame and folding said jointed supporting device.

8. An awning-frame and awning, in combination with a jointed supporting device pivotally secured to said frame beneath the outer end of said awning, and cords or cables for raising said frame and folding said jointed supporting device.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CHARLES H. HANSEN.

Witnesses:
H. G. UNDERWOOD,
B. C. ROLOFF.