

(No Model.)

A. W. HOLLINGSWORTH.
SUNSHADE FOR CANOPIED VEHICLES.

No. 571,443.

Patented Nov. 17, 1896.

Fig. 1.

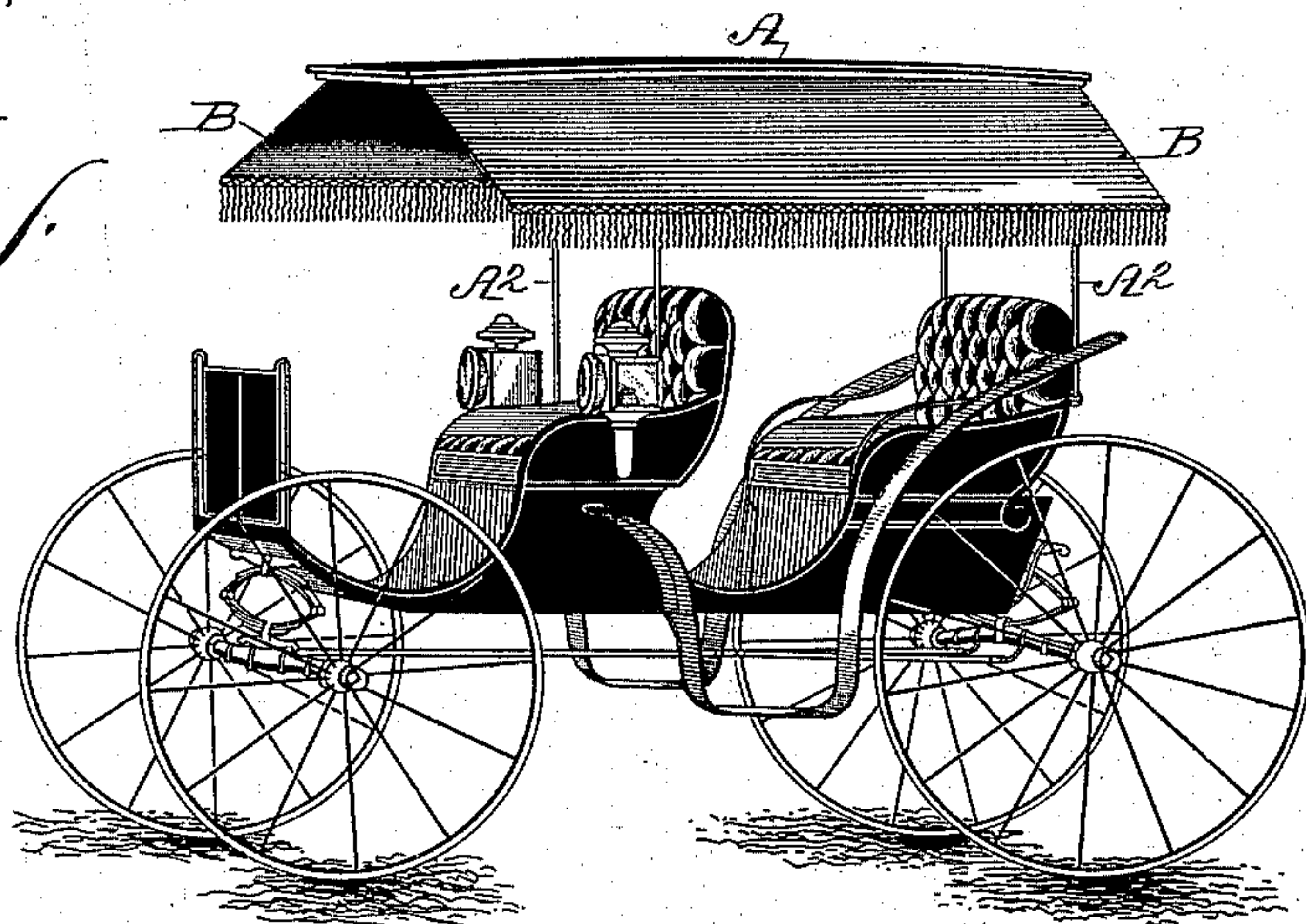


Fig. 2.

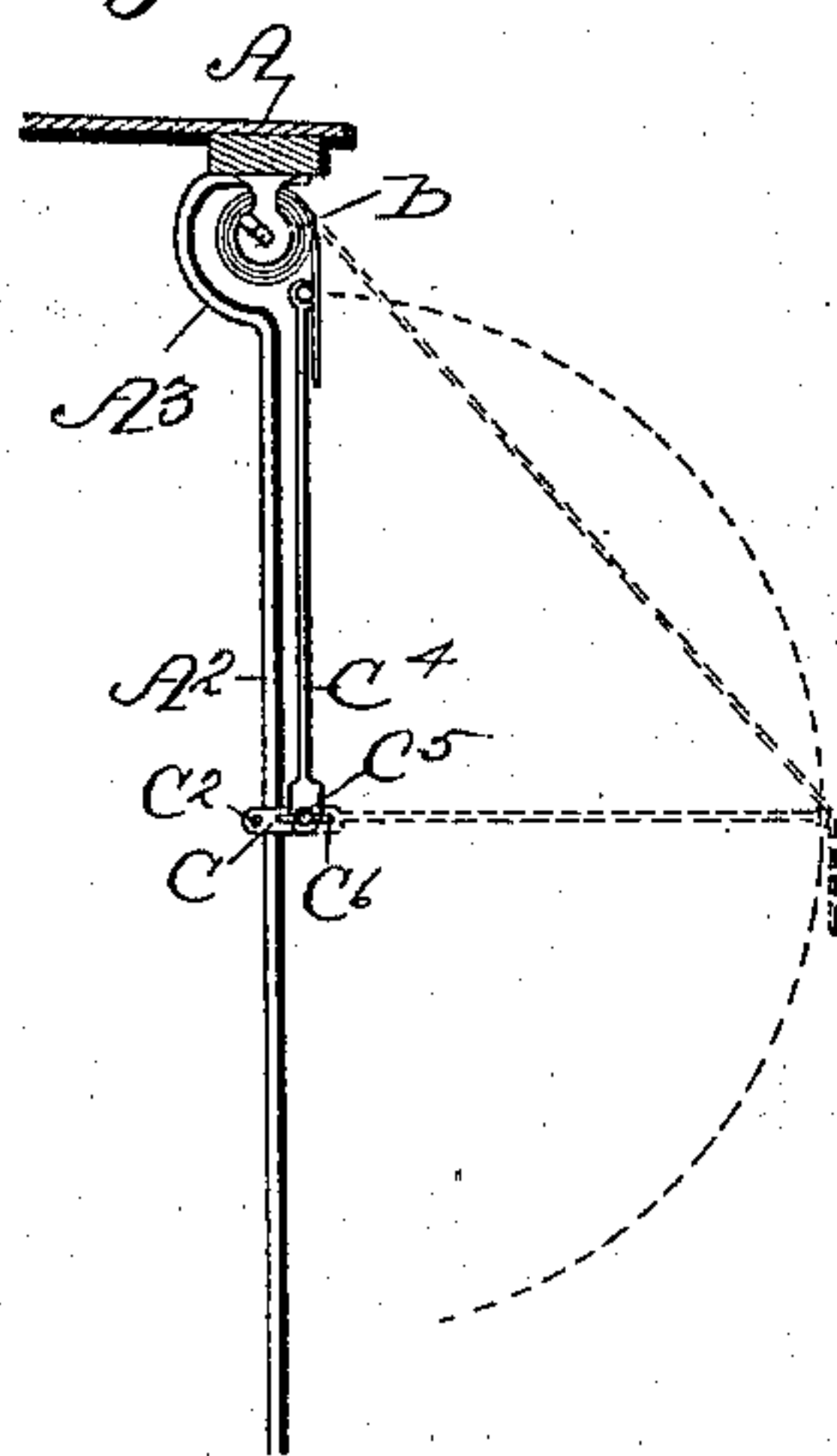


Fig. 3.

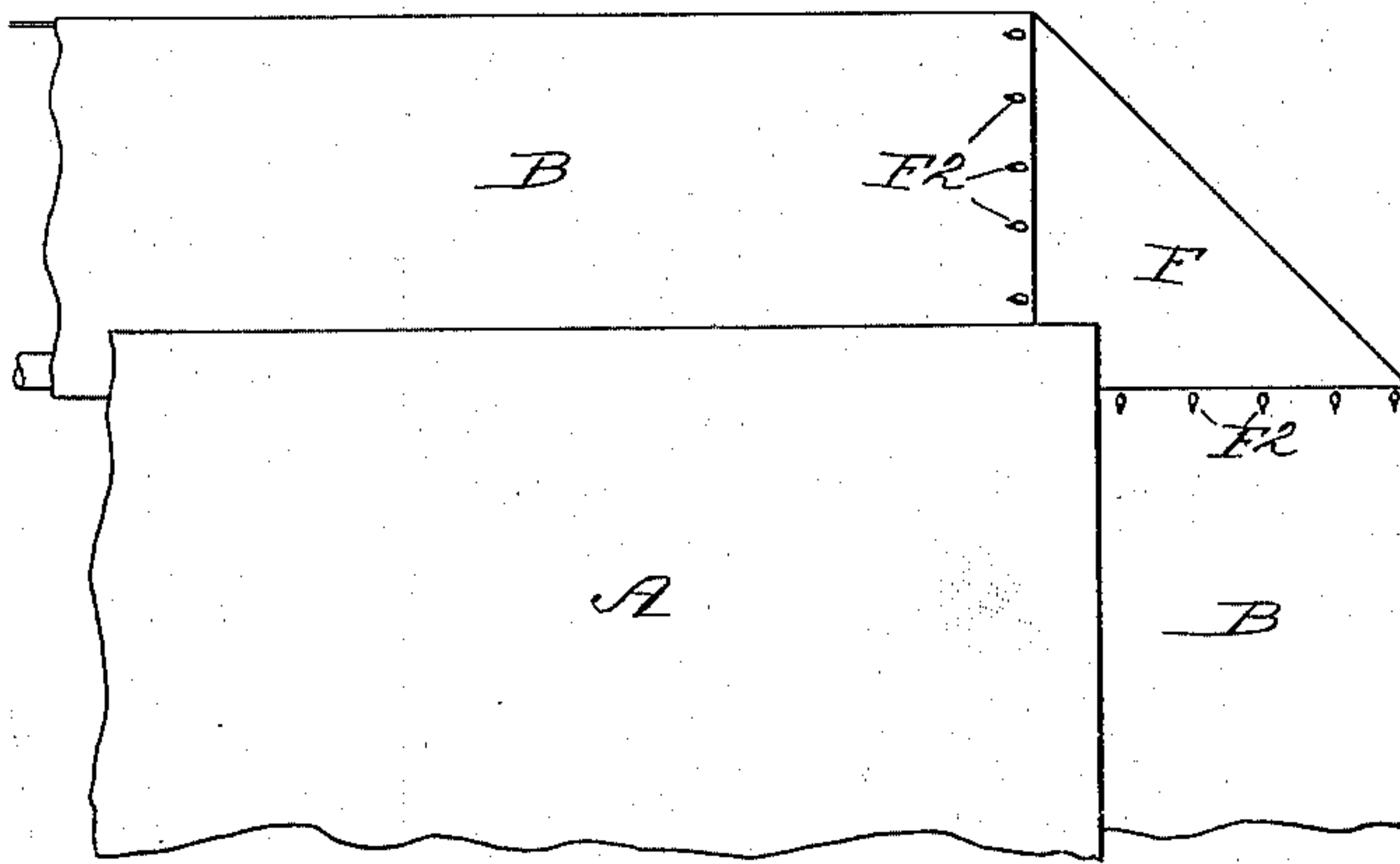


Fig. 4.

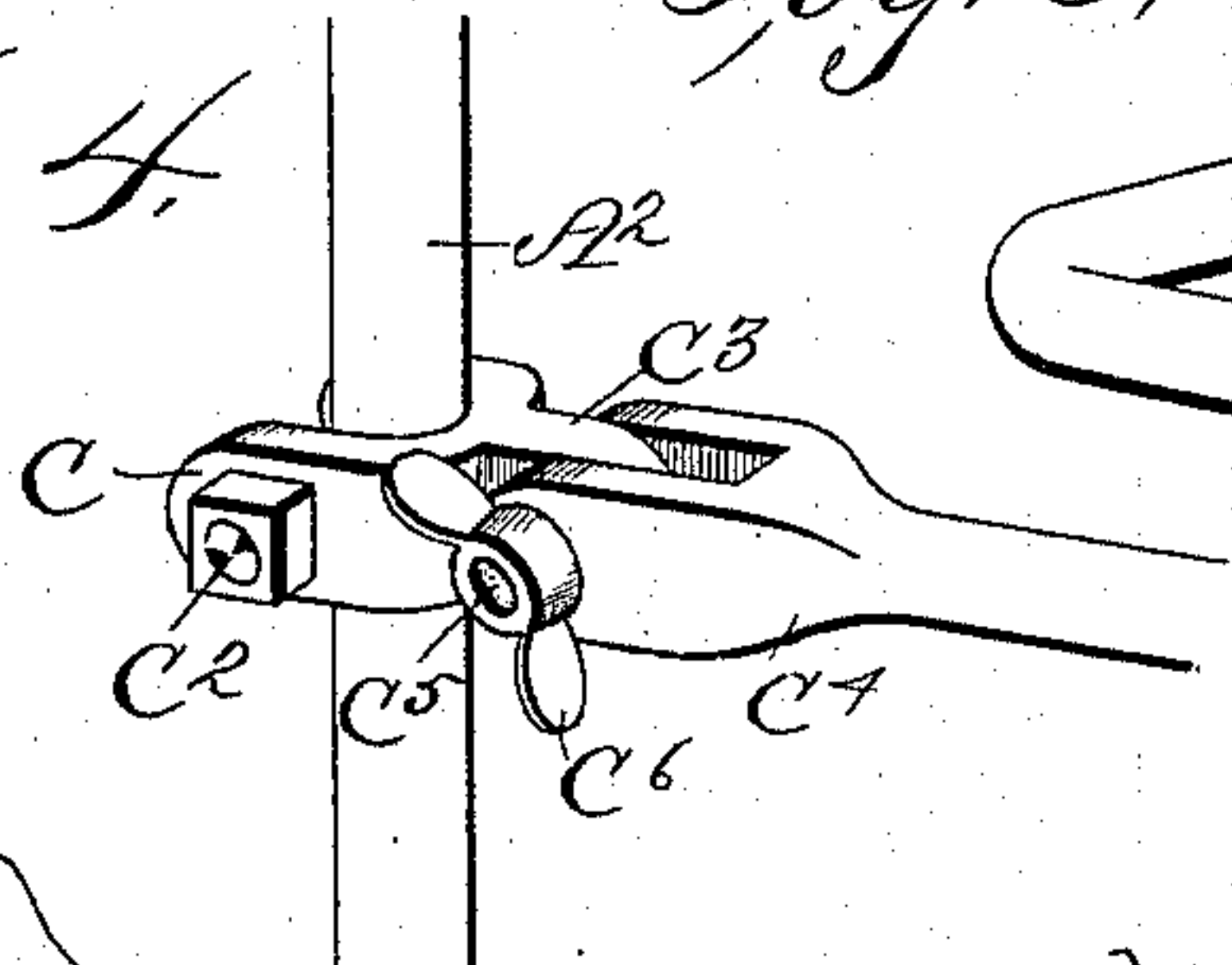


Fig. 5.

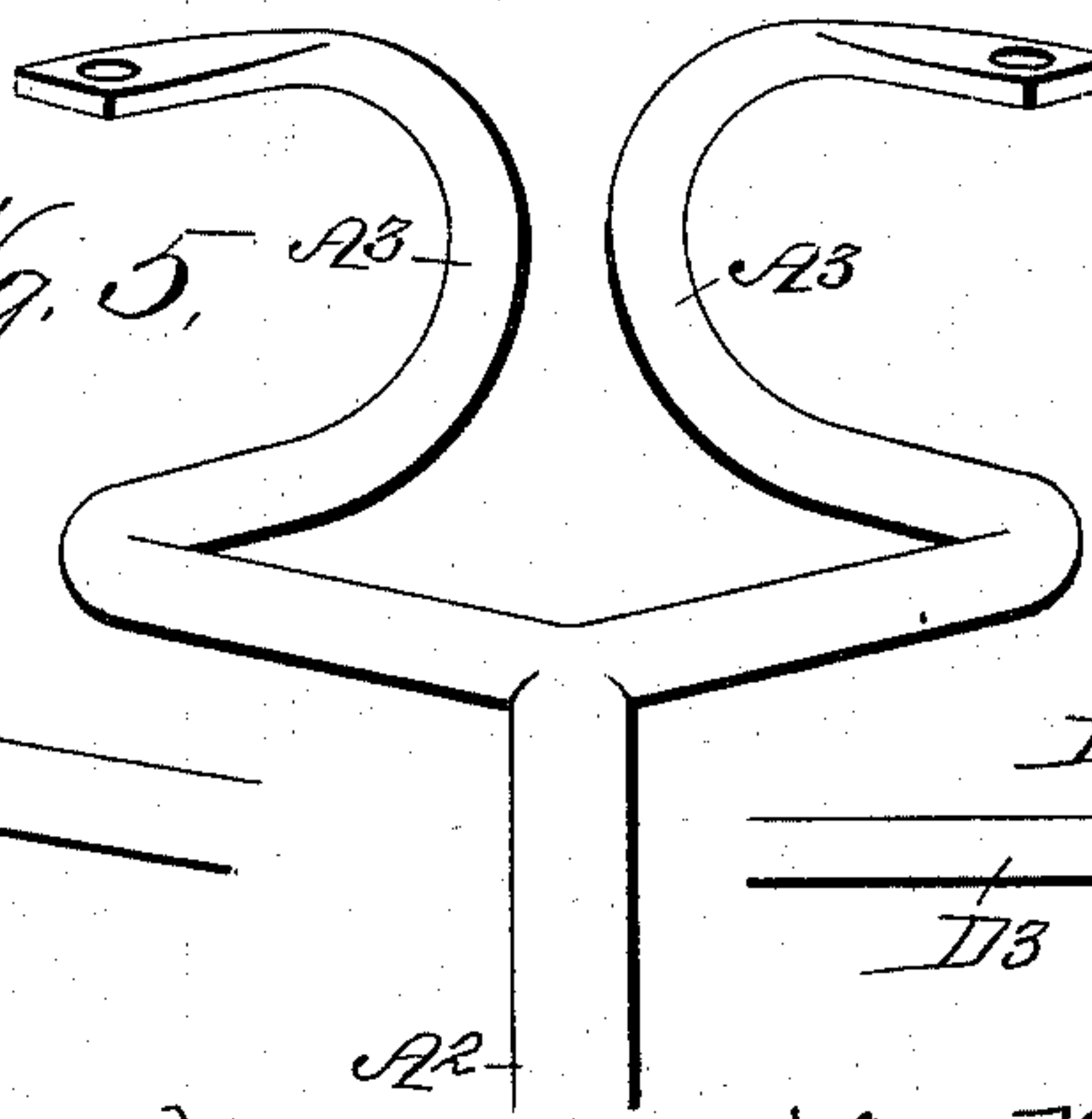
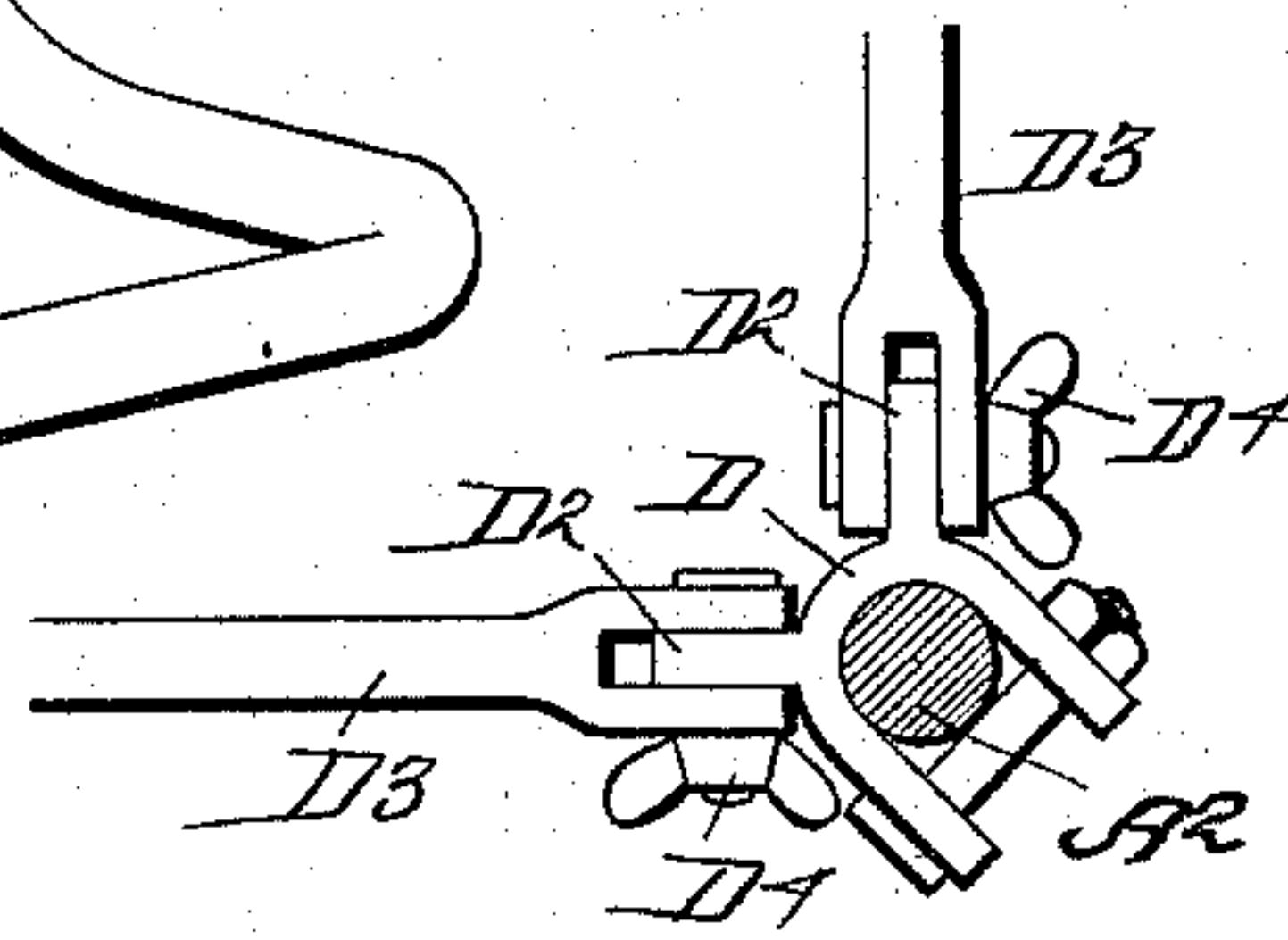


Fig. 6.



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UNITED STATES PATENT OFFICE.

AQUILA W. HOLLINGSWORTH, OF WEST LIBERTY, IOWA.

SUNSHADE FOR CANOPIED VEHICLES.

SPECIFICATION forming part of Letters Patent No. 571,443, dated November 17, 1896.

Application filed January 28, 1896. Serial No. 577,103. (No model.)

To all whom it may concern:

Be it known that I, AQUILA W. HOLLINGSWORTH, a citizen of the United States of America, residing at West Liberty, in the county of Muscatine and State of Iowa, have invented a new and useful Sunshade for Canopied Vehicles, of which the following is a specification.

My object is to provide a convenient, durable, and inexpensive attachment for vehicle-canopies that may be easily and quickly adjusted to intercept the sun when at any point relative to the vehicle and at the same time not limit the view of the occupants of the vehicle, nor stop the circulation of air through the vehicle.

My object is further to provide a sunshade that may also be readily and quickly adjusted to close the sides of the vehicle to protect the interior from rain, &c., and to provide a device that will automatically roll up beneath the canopy when released.

My object is further to provide simple and easily-operated means for firmly securing the curtains in any position in which they may be placed.

My invention consists in the arrangement and combination, with a vehicle-canopy, of a series of automatic roller-curtains and means for holding them in proper position to serve as sunshades or to protect the sides of the vehicle from storms, &c., as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 shows the device applied to a canopied surrey as in practical use. Fig. 2 shows a sectional view of one of the curtains and part of the canopy, showing the different positions of the curtain in dotted lines. Fig. 3 shows a top view of one corner of the canopy and sunshades to illustrate the device for closing the space between the side and back curtains. Fig. 4 shows in detail the clamp for pivoting one of the curtain-supporting-rods to the canopy-uprights. Fig. 5 shows the corner upright of the canopy. Fig. 6 shows the clamp for connecting the curtain-rods to the corner canopy-upright.

Referring to the accompanying drawings, the reference-letter A is used to indicate the canopy supported from the vehicle-frame by

upright rods A². These rods are curved inwardly at their tops at A³, as required, to admit the automatic spring-actuated curtain-rollers B to be mounted on the under side of the canopy in the same manner in which they are usually mounted above a window.

Mounted upon each of the side uprights A² is a clamp C, made longitudinally adjustable thereon by means of the set-screw C². An ear C³ is formed on said clamp, and a rod C⁴ having the lower end bifurcated, is placed on said ear and held thereon by means of the bolt C⁵ and winged nut C⁶, by which the rod may be securely held at any angle relative to the upright. The upper end of the rod is attached to the end of the side curtain. On each of the rear corner uprights is slidably mounted a clamp D, having a similar bolt for securing it to the upright, and two perforated ears D² on which rods D³ are pivoted and held by clamping-bolts D⁴ to support the rear ends of the side and the back curtains.

When the sun strikes one of the rear corners of the vehicle, it is obvious that the curtains will not fully protect the occupants. For this emergency I have provided a small triangular-shaped curtain F to be attached to the adjoining edges of the curtains by means of buttons F³ or in any suitable manner.

In practical use it is obvious that in order to protect either the sides or rear of the vehicle it is only necessary to draw the proper curtain outwardly, where it is held in place by means of the weight of the rod in the end of the curtain. If, however, the wind should be so strong as to blow the curtain about, it may be easily and quickly secured in place by means of the thumb-screws, and when it is not necessary to employ the curtains as sunshades the thumb-screws may be loosened and the curtains automatically released to roll up in the usual way.

If it is desirable to use the curtains to protect the vehicle from rain, &c., the curtains are drawn out and then down until the end of the curtain engages the uprights A², where they may be held in place by means of the thumb-nuts. If the curtains are not long enough to permit said rods to be swung downwardly, the clamps on the uprights are raised, thus providing for an adjustment of the curtain in a vertical plane.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States therefor, is—

- 5 The combination with a vehicle-canopy of an automatic spring-actuated, ratchet, curtain-roller mounted beneath one edge thereof, two or more rods attached to the end of the curtain, clamps adjustably mounted on

the canopy-supports, and having said rods so pivoted thereto and winged nuts for securing the rods to the clamps in any position, substantially as and for the purposes stated.

AQUILA W. HOLLINGSWORTH.

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