(No Model.) 2 Sheets—Sheet 1.

J. J. LETCHWORTH & C. J. BESSESEN.

VEHICLE SEAT SHADE.

No. 424,116. Patented Mar. 25, 1890.

Fig. 1.

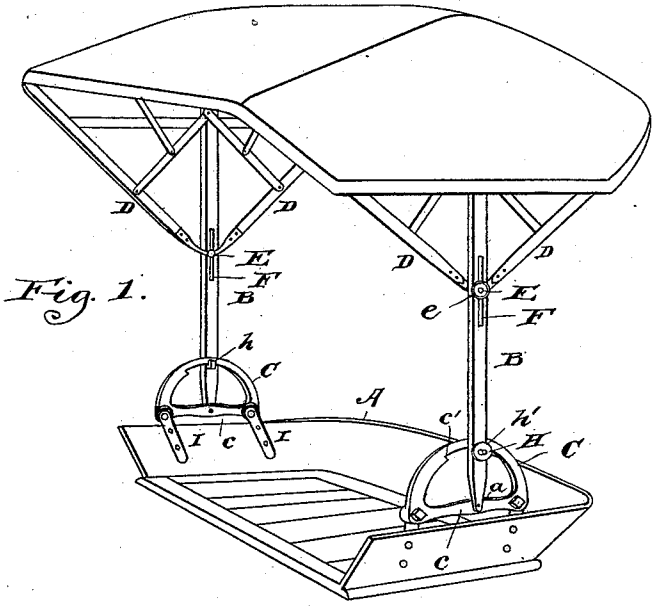


Fig. 5.

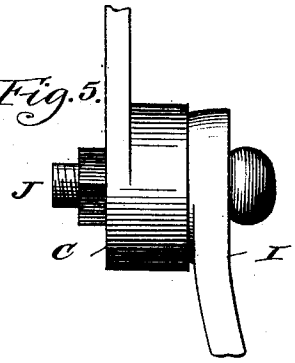


Fig. 7.

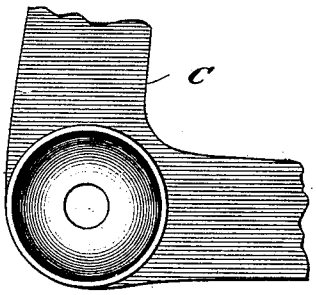


Fig. 8.

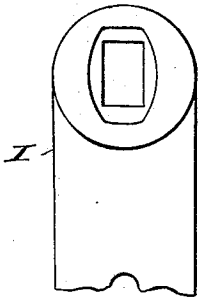
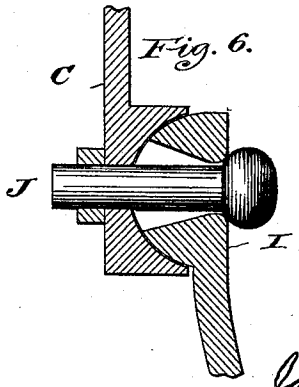


Fig. 6.



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(No Model.) 2 Sheets—Sheet 2.

J. J. LETCHWORTH & C. J. BESSESEN.

VEHICLE SEAT SHADE.

No. 424,116. Patented Mar. 25, 1890.

Fig. 3.

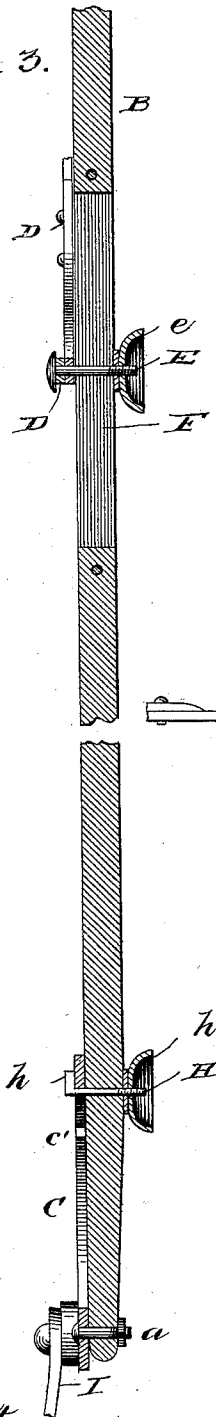


Fig. 2.

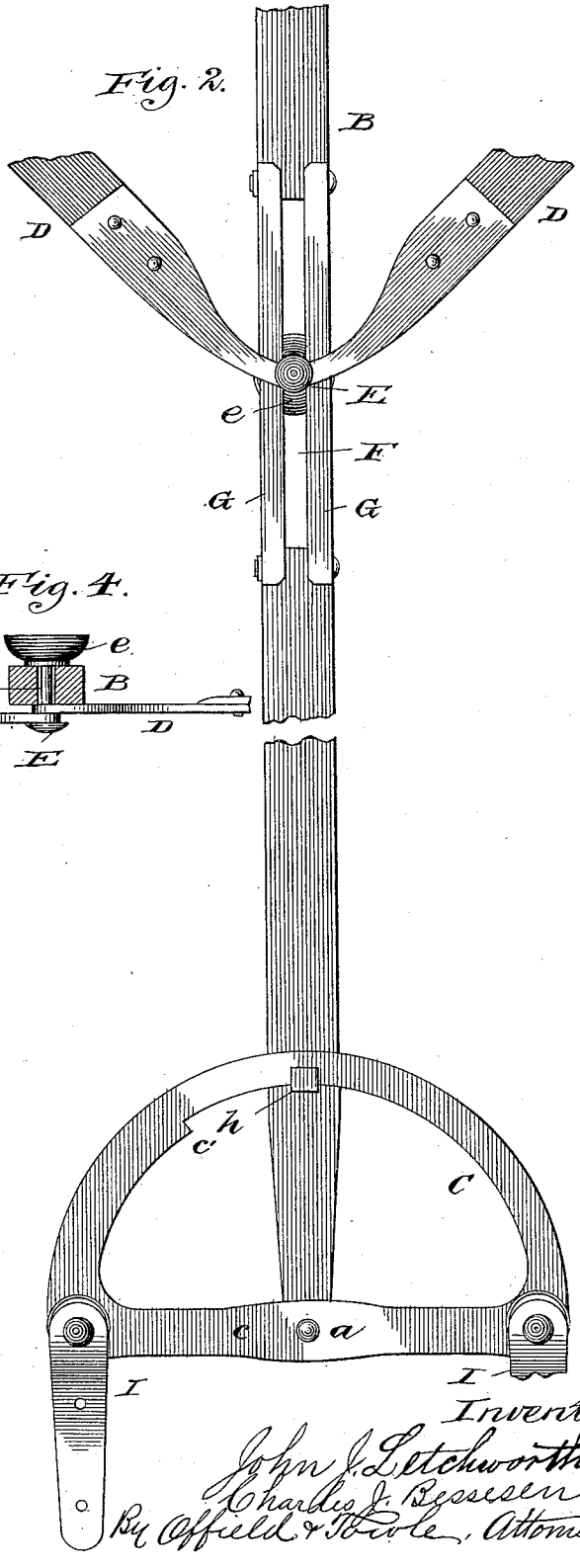


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN J. LETCHWORTH AND CHARLES J. BESSESEN, OF CHICAGO, ILLINOIS.

VEHICLE-SEAT SHADE.

SPECIFICATION forming part of Letters Patent No. 424,116, dated March 25, 1890.

Application filed December 10, 1889. Serial No. 333,209. (No model.)

To all whom it may concern:

Be it known that we, JOHN J. LETCHWORTH and CHARLES J. BESSESEN, of Chicago, Illinois, have invented certain new and useful Improvements in Vehicle-Seat Shades, of which the following is a specification.

This invention relates to a shade for vehicle-seats, and comprises a main bow whose legs are pivotally secured at their lower ends, means for locking said legs at different angles to the seat, means for securing the device to seats of varying construction, and means for folding and expanding the top at will and for securing it in either condition.

In the accompanying drawings, Figure 1 is a perspective view of a vehicle-seat with the shade raised and expanded. Fig. 2 is a side elevation, partly broken away, of one of the legs of the main bow and connected parts. Fig. 3 is a sectional elevation thereof, and Fig. 4 a transverse section of the main bow and a plan view of the side bow-supports and locking means. Figs. 5, 6, 7, and 8 are details of a jointed connection between the leg-supporting plate and the seat-frame.

A represents the seat, and B the principal bow, the lower ends of the legs whereof are pivoted at *a* to the bar *c* of the parti-circular plate C, the circular member whereof its cut away on its lower edge to provide the stop *c'* to limit the forward movement of the legs.

D D represent the side bows, the lower ends whereof are pivotally connected to a bolt E, which is adapted to travel in a vertical slot F in the main bow. This bolt has a tightening-nut *e* on the end thereof, and the slot is of such length as to permit the folding of the top or shade, as occasion requires. The legs of the main bow may be strengthened at the slot by the plates G, which also form bearing-surfaces for the nut and head of the bolt. The means for locking the legs to the circle-plate comprise a bolt H, having the head *h* and the tightening-nut *h'*. The plate C is secured to the seat by modified ball-and-socket joints at the corners thereof, the cup of the joint being formed in the plate and the ball on the upper ends of the attaching-legs I. The parts of the joint are secured together by the pin or bolt J. The aperture of the ball is flaring at its inner end to admit of the angular adjustment of the parts with relation to each other in vertical lines, and the movement of the ball on the pin J permits of their lateral adjustment with relation to each other. This joint therefore gives a capacity for adjustment at various angles to adapt the shade to be attached to seats having sides of various bevels and angles.

We claim—

1. In a vehicle-seat shade, the combination, with the main bow, the legs whereof are slotted longitudinally, of side bows to which the margins of the hood or cover are secured, said side bows having their lower ends pivotally connected to a headed bolt, the body whereof is passed through and adapted to slide in the slot of the main bow, whereby to fold and unfold the cover, and a nut to lock the bolt in the slot, substantially as described.

2. In a vehicle-seat shade, the combination, with the main bow having legs pivotally secured to a circle-plate, said plate and attaching-feet connected to said plate at the corners thereof by ball-and-socket joints having their movements limited by a bolt passing transversely through the members, substantially as described.

3. In a vehicle-seat shade, the combination, with a main bow, of a circle-plate to which the legs of said bow are pivotally connected, attaching-feet connected to the corners of said plate by ball-and-socket joints, the members whereof are secured together by a transverse pivot pin or bolt passed through both, the aperture in the ball being flared at its inner end, substantially as described.

JOHN J. LETCHWORTH.
CHARLES J. BESSESEN.

Witnesses:
C. C. LINTHICUM,
FREDERICK C. GOODWIN.