(No Model.)

C. H. AMES.

INSIDE BLIND FOR WINDOWS.

No. 393,052. Patented Nov. 20, 1888.

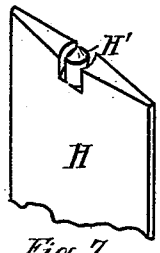


Fig. 7.

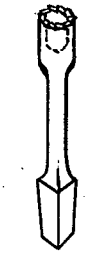


Fig. 8.

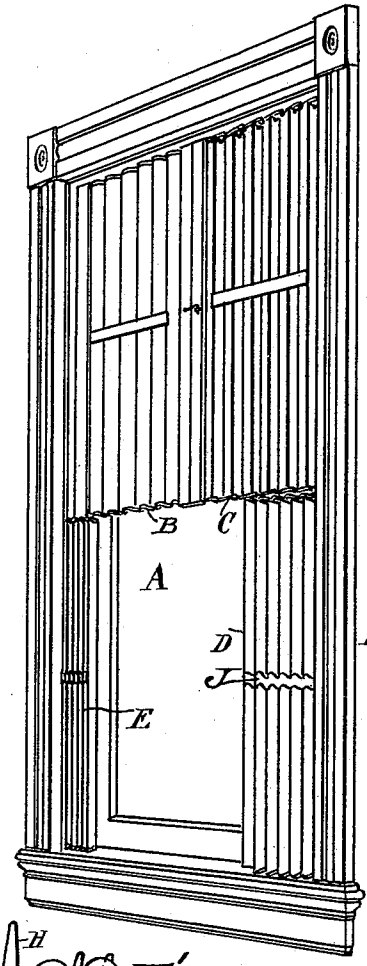


Fig. 1.

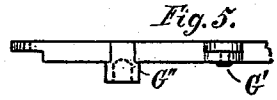


Fig. 5.

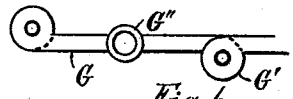


Fig. 6.

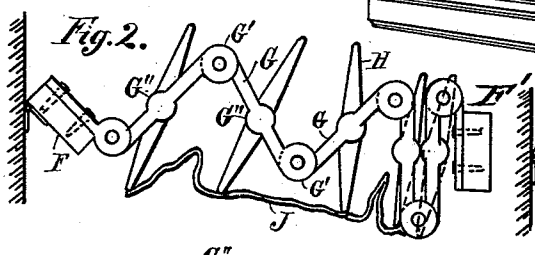


Fig. 2.

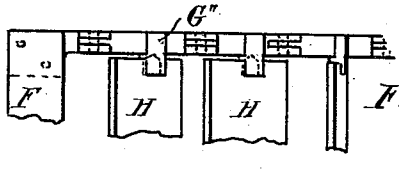


Fig. 3.

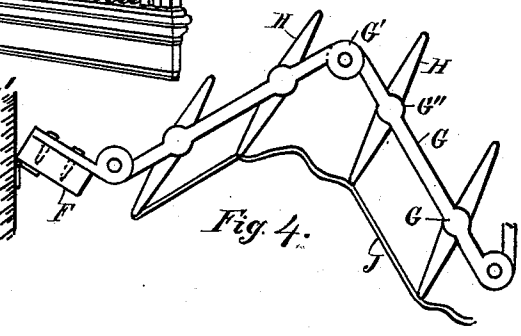


Fig. 4.

Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES H. AMES, OF DELTA, OHIO, ASSIGNOR OF ONE-HALF TO THOMAS F. RAYNOR, OF SAME PLACE.

INSIDE BLIND FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 393,052, dated November 20, 1888.

Application filed April 30, 1888. Serial No. 272,351. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. AMES, a citizen of the United States, residing at Delta, in the county of Fulton and State of Ohio, have invented certain new and useful Improvements in Inside Blinds for Windows; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to inside blinds for windows—such as are usually affixed to the inside casing of the window in sections of two or more—and has for its object to construct each section with an adaptability to be folded against the inside casing to afford an unobstructed view, or with slats so journaled in the hinged sections that they can be turned to afford a partial view or entirely close the blind.

Another object is to arrange the slats vertically and secure the same in the metal frame by pivots formed in the end of the slat by having the material removed concentrically from the solid portion of the center of the slat.

Another object is to construct the upper and lower portions of the frame of metal parts hinged together, with each metal part provided with one or more hollow bosses, into which the slat is secured.

In the drawings, Figure 1 is an elevation of a window provided with inside blinds composed of four sections, the upper half being shown closed, one lower section folded, and the remaining section partially folded. Fig. 2 is a top plan view of a section of blind partially folded. Fig. 3 is an elevation of a section of blind, showing the upper frame composed of metal bars joined by a tongue-and-groove joint, the view being drawn with the section partly folded. Fig. 4 is a plan view of a portion of one section of blind partially folded, with the slats partially opened. Fig. 5 is an edge and Fig. 6 is a side view of a portion of the metal frame, showing a modified form of hinge and the hollow bosses in which the slats are pivoted. Fig. 7 is an elevation of one end of a slat, showing the pivot formed therein. Fig. 8 is an elevation of a preferred form of bit for forming the pivot upon the slat.

A designates the window, to which are hinged upper sections, B and C, and lower sections, D and E, of inside blinds constructed in accordance with my invention. Each section comprises a side bar, F, hinged to the window-casing, and F′, which forms the opposite side, connected at top and bottom by a series of metal bars or stiles, G, hinged together at G′ either by a tongue-and-groove joint, as shown in Fig. 3, or a lap-hinge, as shown in Fig. 5, or by any preferred construction of hinge, so that the bars are capable of being folded upon each other, as shown at the right in Fig. 2. Each metal bar G is formed with one or more cylindrical bosses, G″, having a circumferential perforation extending in depth to the thickness of the boss, and preferably terminating in conical shape, into which is inserted a cylindrical pivot, H′, of slat H, the outer end of the pivot being preferably of conical shape, by which means the slats extend perpendicularly and have a rotative moment in the metal bars. To the inner edge and about midway the length of the slats is secured a flexible tape, J, by which the slats may be moved at right angles to the bars to admit light and permit observation through the window or be closed when desired.

To open the blinds when closed, the hinged bars are folded upon each other, as shown at the right in Fig. 2, or, if it is desired to admit light to the room with the sections of blinds closed, tape J is pulled, thereby giving each slat a partial rotation upon its pivot, and the slats are brought with their width at right angles to the bars.

By forming the pivots H′ in the body of the slat, whereby the material of which the slat is composed surrounds the pivot concentrically, there is a much more finished appearance given to the blind than when the pivot extends beyond the length of the slat, the pivot being also more easily formed by means of a hollow bit, as shown in Fig. 8, when journaled in a fixed arbor.

The metal bars may be cast or stamped of any suitable material, and finished by grinding and polishing, or by plating, if desired.

The metal bars and slats may be constructed as an article of manufacture, and any desired

number of the same purchased from stock, it being simply necessary to unite a sufficient number of bars to measure the width of the window, and needing no skilled labor to assemble the parts and form a blind.

What I claim, and desire to secure by Letters Patent, is—

1. The herein-described inside blind, consisting of longitudinal bars and transverse bars composed of metal sections hinged together and provided with circular bosses having concentric recesses for the reception of slat-pivots, in combination with slats formed with pivots and having a body portion concentric therewith, as and for the purpose set forth.

2. In a slat-frame for an inside blind, end bars consisting of sections formed of metal hinged together and provided with projecting circular bosses having concentric recesses for the insertion of the slat-pivots, as and for the purpose set forth.

3. In an inside blind, slats having pivots formed in the ends thereof, and with the body portion of the slat projecting outward concentric therewith, in combination with a slat-frame comprising hinged sections formed with projecting bosses recessed for the pivots, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

CHARLES H. AMES.

Witnesses:
T. F. RAYNOR,
C. F. ACKERMAN.