(No Model.)

D. C. LYON.

FRAME FOR SASH PULLEYS.

No. 369,648. Patented Sept. 6, 1887.

Fig. 1.

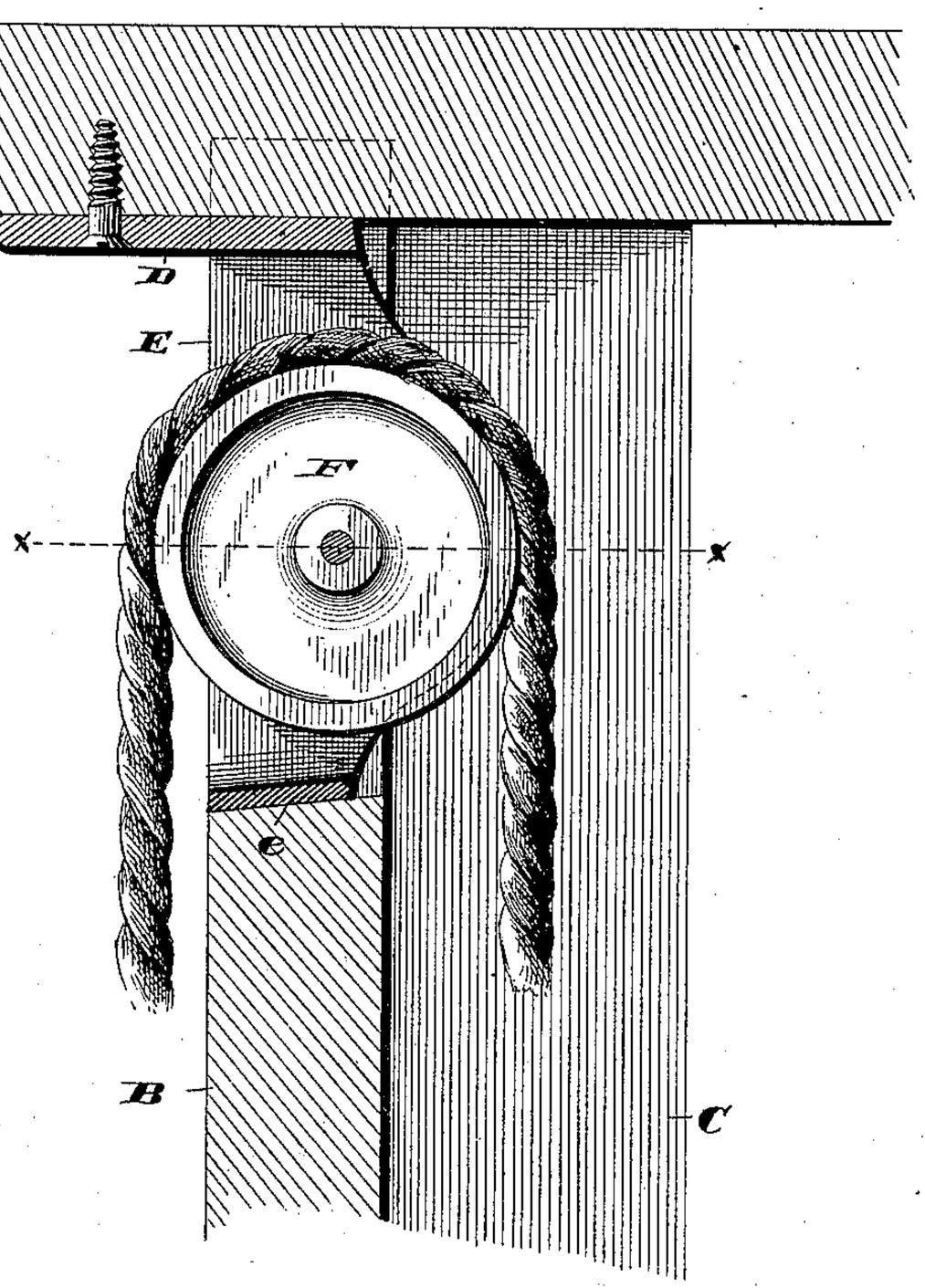


Fig. 3.

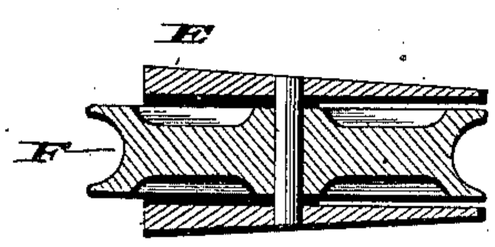
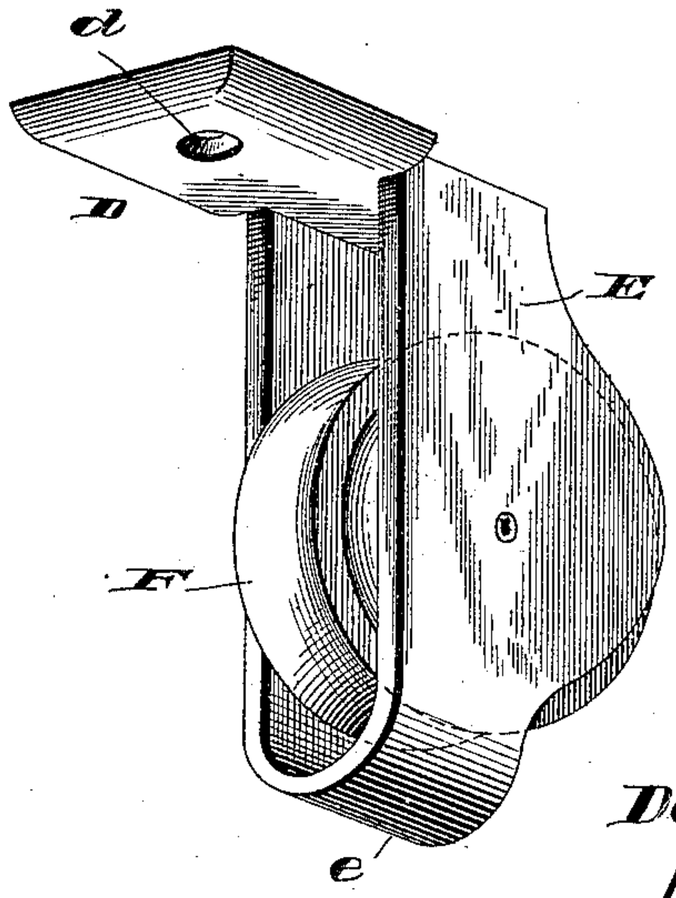


Fig. 2.



WITNESSES

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FRAME FOR SASH-PULLEYS.

SPECIFICATION forming part of Letters Patent No. 369,648, dated September 6, 1887.

Application filed April 7, 1887. Serial No. 234,042. (No model.)

To all whom it may concern:

Be it known that I, DELOS C. LYON, a citizen of the United States of America, residing at Girard, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Frames for Sash-Pulleys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in frames for sash-pulleys; and it consists in the arrangement and construction of the parts, as will be hereinafter fully set forth, whereby the pulley for the sash-cord can be readily attached and held securely in place by a single screw, as will be hereinafter fully set forth, and specifically pointed out in the claim.

In the accompanying drawings, which illustrate my invention, Figure 1 is a vertical sectional view of a window-pulley and its frame attached in position, the same being constructed in accordance with my invention. Fig. 2 is a detail perspective view. Fig. 3 is a section of the pulley on line *x x*, Fig. 1.

To better illustrate my invention, and in order that the same may be fully understood, I have shown my improvement in Fig. 1 applied to a window-frame, in which view A refers to the top jamb of the window-frame, B being the side jamb, and C the weight-box.

In order to apply my improvement, which will be hereinafter described, the side jamb, B, is provided at a point extending from the top jamb, A, with a vertical slot, the lower end of said slot being curved, or of the same configuration as the base or lower end of the metallic frame which supports the pulley, and in order to attach my improvement to a window-frame of ordinary construction the forming of this slot is the only preparation needed. The frame of the pulley is preferably made of a malleable casting of a single piece, which is provided at its upper portion with a horizontal plate, D, which projects from the bail or loop E, between which the grooved pulley F is journaled. The bail or loop E is U-shaped in cross-section, the lower portion, *e*, being preferably curved, though it may be of any other suitable shape, if found desirable, and the lower edge of this curved portion tapers slightly inward. The side pieces, E E, also taper from their front edge rearwardly. The top plate, D, projects slightly beyond the side pieces of the pulley-support, and is centrally provided with a perforation, *d*, through which passes an ordinary wood-screw for attaching the same to the upper jamb.

In attaching my improved frame to the sash-frame the slot in the side jamb, hereinbefore referred to, is formed so as to be slightly smaller than the portion E, and said portion E is then driven into this slot, and as the side pieces and bottom portion are slightly tapered it will, when driven in, be wedged securely in position, and after it is driven into the slot so that its edge will be flush with the side jamb the screw is passed through the perforation *d* and screwed into the top jamb, and said screw, with the frictional contact of the sides, will hold the frame securely in position.

I am aware that prior to my invention there existed a patent, No. 91,836, which shows a window-pulley or sash-cord guide having a tubular case which is adapted to support two pulley-wheels which are inserted therein, and I do not claim such construction as my invention, as such device is merely adapted to be attached to the side jamb of the window-frame, so that the sash-cord will work over two pulleys instead of one. My invention is adapted to be applied to sash-frames as now manufactured, and the down pressure or weight of the sash and weight attached to the sash-cord will be received by the lower end of the slot in the side jamb and not solely upon the screw, and the flat upper portion of the top plate, D, bearing against the top jamb, will prevent the frame rocking or working loose, and the laterally-projecting top portions of this top plate will prevent the pulley-supporting frame being driven beyond its proper position in the slot.

I claim—

As an improved article of manufacture, a

frame for sash-pulleys, constructed substantially as described, the side and bottom portions of said frame being tapered from their front edge inwardly, said side pieces supporting portion F and provided with the top plate, D, which projects beyond the side pieces, substantially as shown, and for the purpose set forth.

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

DELOS C. LYON.

Witnesses:
WILLIAM LYON,
C. D. GOODRICH.