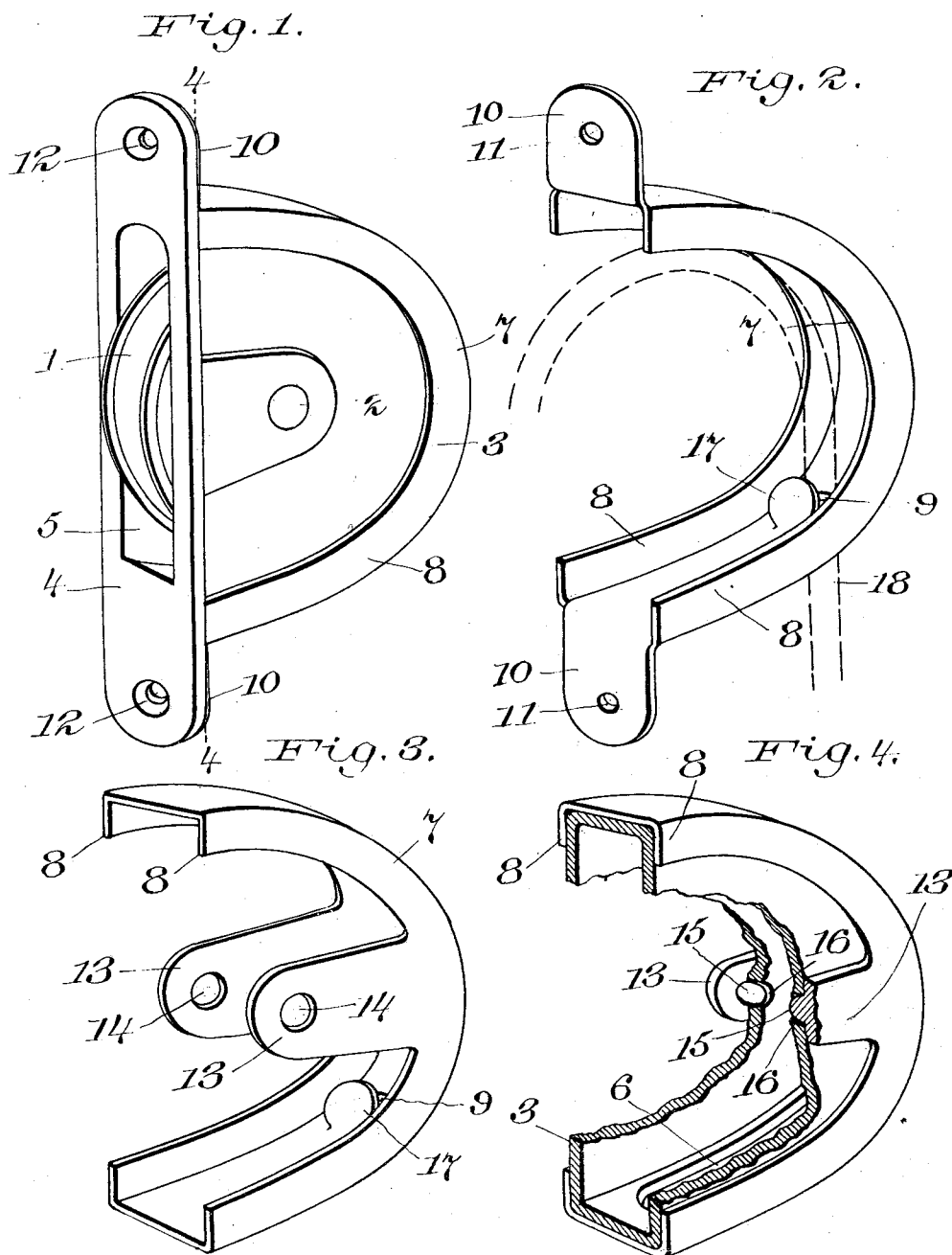


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CAP FOR SASH PULLEYS.
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UNITED STATES PATENT OFFICE.

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CAP FOR SASH-PULLEYS.

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To all whom it may concern:

Be it known that I, RICHARD F. HAMILTON, a citizen of the United States of America, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Caps for Sash-Pulleys, of which the following is a specification.

My invention relates to sash pulleys such as are inserted in the sides of window frames and over which the window cords run to counterweights hidden in the walls. These sash pulleys adapted for insertion in the sides of window frames have heretofore been mounted in housings which are left open so that the cold air from the outside may freely pass around the pulley and enter the house. In houses built of brick, stone or hollow tile, and especially in frame and cheaply built brick houses, the outer air has free access to these openings through the window casing and, when strong cold winds are blowing, an amount of cold air pours in through numerous openings of this kind which makes it almost impossible to keep the house warm with ordinary heating apparatus. I have invented a simple means for covering these openings which consists in its preferred form of a cast or sheet metal cap which can be readily applied to the pulley housings of standard make and attached thereto without the use of additional fastening means so as to entirely cover the opening in the housing except for a small aperture through which the sash cord passes to the counterweight.

The best form of apparatus at present known to me embodying my invention, together with sundry modifications thereof are illustrated in the accompanying sheet of drawings, in which,

Figure 1 is a perspective view of an ordinary form of sash pulley and housing with my invention applied thereto. Fig. 2 is a detail perspective view of the cap removed from the housing. Fig. 3 is a similar view of a modification, and Fig. 4 is a perspective view of another modification, the housing being shown in section on line 4-4 of Fig. 1, with parts additionally broken away. Throughout the drawings like reference characters indicate like parts.

1 is the ordinary pulley mounted on axle or shaft 2 which is usually held rigid in the housing 3. This housing is cast integrally with the plate 4 having a slot 5. This plate of course fits into the side of the window

casing or jamb and the pulley is so mounted as to project only slightly beyond the face of the plate 4, as shown in Fig. 1.

The housing has an opening 6 around its circumference, said housing consisting in short of little more than two parallel semi-circular plates attached to the plate 4. A cap 7 is made of sheet or cast metal having preferably narrow side strips 8, 8, the whole being curved to an arc such that it will fit over the housing 3 and completely close the opening 6 except for a small aperture 9 through which the window cord may pass extending down to the counterweight.

The foregoing closed housing being the essential feature of my invention, various means for attaching the closing cap or other closure may be employed. In Figs. 1 and 2 I have illustrated one means which consists of ears 10, 10, at each end of the cap having holes 11, 11, in line with the screw holes 12, 12, in plate 4. The screws which hold the pulley and housing to the window frame may thus pass through the openings 11, 11, and hold the cap in place without additional fastening means.

In the modification shown in Fig. 3 the ears at the end of the cap are dispensed with, but radial ears 13, 13 are substituted which have openings 14, 14, in line with the pulley axle 2. Accordingly said axle may pass through said openings and hold the cap in position.

In Fig. 4 I have shown these radial ears 13, 13, made somewhat shorter and provided with small inwardly extending projections 15, 15, adapted to register with recesses 16, 16, formed in the sides of the pulley housing. When the cap is made of sheet metal, the ears will spring enough to permit these knobs 15, 15, to snap into the recesses 16, 16, and hold the cap in position.

The advantages of my invention are that when the apparatus is in position and the window cords passed through the aperture 9, the interior of the pulley housing is completely closed against the access of air from the outside of the window casing, and also from the access of dirt and moisture which might interfere with the operation of the pulley or destroy the cord. Furthermore, if the cap is provided with a guide shield over hole 9 such as is shown at 17 in Figs. 2 and 3, the construction serves as a guide for the sash cord when the same is being placed over the pulley as indicated at 18

in Fig. 2. When the cap is made of sheet metal this guide shield may be formed by stamping up the portion of the sheet metal which would otherwise be removed to form the hole.

5 Having, therefore, described my invention, I claim:

10 1. A cap for sash pulley housings adapted to fit over the opening therein, and provided with a small opening through which the portion of the window cord extending to the counterweight may pass, said cap being provided with an inwardly extending guide shield opposite the cord opening therein.

2. A cap for a sash pulley housing consisting of a stamped metal sheet adapted to fit over the opening therein and provided with a small opening through which the window cord extending to the counterweight may pass, said opening being formed by stamping inwardly a portion of the sheet partly cut out and said inwardly stamped portion being adapted to form a guide shield for the cord opposite the opening.

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