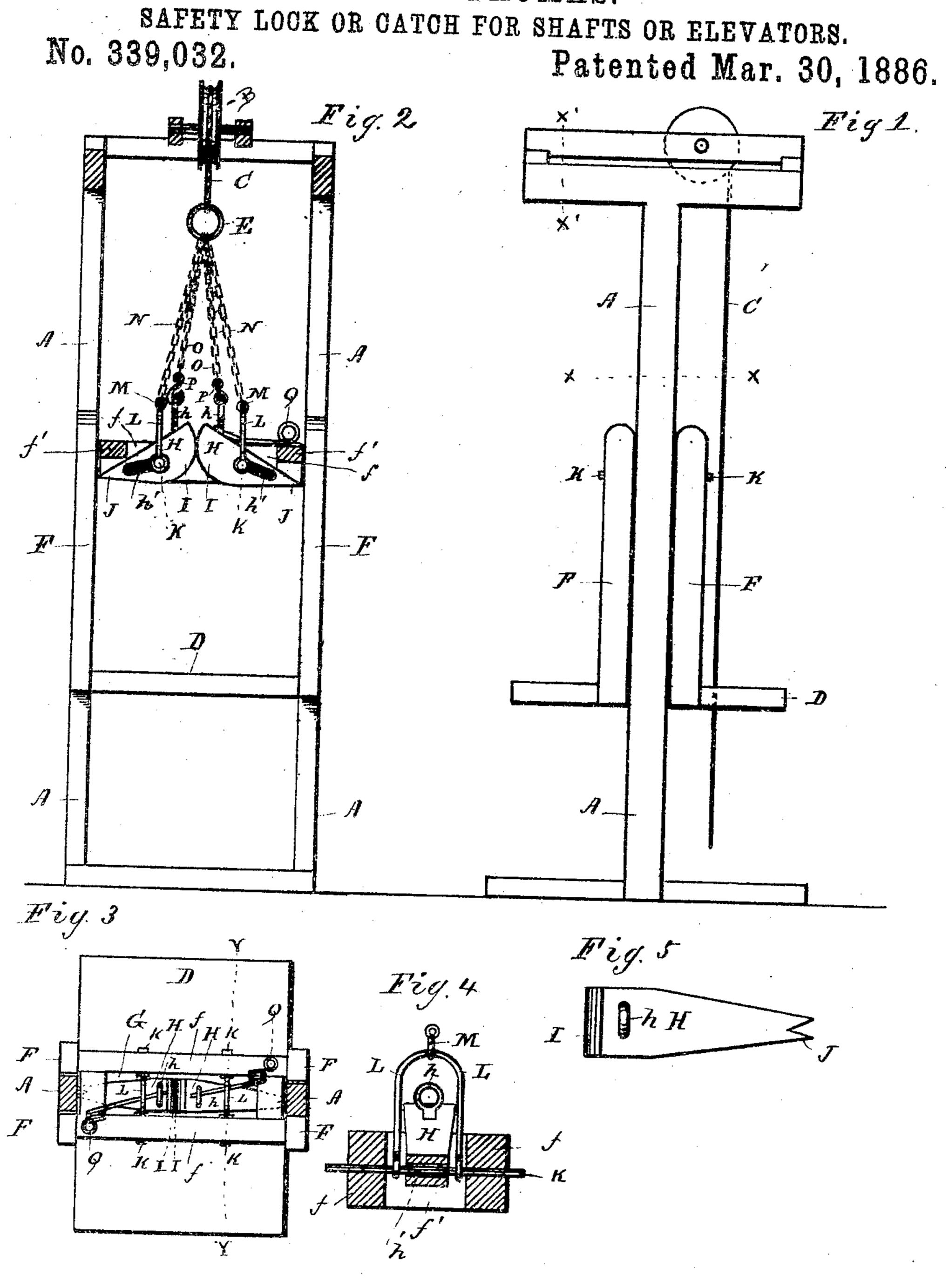
C. C. THOMAS.



MITNESSES Morton Foodmin Colvin L Bradford

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UNITED STATES PATENT OFFICE.

CASH C. THOMAS, OF EVANSVILLE, INDIANA.

SAFETY LOCK OR CATCH FOR SHAFTS OR ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 339,032, dated March 30, 1886.

Application filed January 13, 1886. Serial No. 188, 409. (No model.)

To all whom it may concern:

Be it known that I, Cash C. Thomas, a citizen of the United States, residing at Evansville, in the county of Vanderburg, State of Indiana, have invented certain new and useful Improvements in Safety Locks or Catches for Shafts or Elevators, of which the following is a specification, reference being had therein

to the accompanying drawings.

elevators, and has for its object to provide a strong, simple, durable automatic attachment to elevators, whereby the descent of the platform, in consequence of any break in the hoisting apparatus, will be instantly arrested, and thereby add to the safety of this class of machinery by preventing the loss of life which frequently occurs when the hoisting-rope of an elevator breaks. This object is attained by the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an elevation of an elevator provided with this attachment. Fig. 2 is a sectional view on line x' x' of Fig. 1. Fig. 3 is a sectional plan on line x x of Fig. 1; Fig. 4, a detached sectional view on line y y of Fig. 3 enlarged. Fig. 5 is a detached enlarged plan

of one of the locking devices.

The letter A indicates the frame of the elevator. B is a pulley at the top thereof.

C is the hoisting-rope, one end of which is

attached to a ring, E.

D is the platform, to which is secured a frame 35 consisting of four uprights, F, placed on the opposite sides of the elevator-frame A, thereby forming guides to maintain the platform D in its proper position. The uprights F are connected to each other by the transverse pieces 40 f, either mortise and tenon, or in any other convenient manner. Short pieces f' connect the pieces f to each other and leave an open space, G, which serves the purpose to receive the locking devices H, which are preferably 45 of castings of any suitable metal, and are provided on top with eyebolts h, have a rounded surface where they come in contact at I, and also slots h', as well as serrated points at J. Bolts K pass through each of the trans-

verse pieces f, and also through the slots h', 50 and thus form pivots upon which the pieces H oscillate. Yoke-shape pieces L, having suitable openings in their lower extremities for the passage of the bolts K, straddle the castings H, and have at the top hooks or eyes M, 55 which furnish a means whereby the lower ends of the chains N may be secured thereto, the upper ends thereof being carried up and attached to the ring E. Links P are attached to the eyebolts h, and from the upper part of these links extend the chains o to the ring E, where they are securely fastened.

Q are springs attached to the transverse pieces f in any suitable manner. These springs bear upon the top of the pieces H and serve 65 to maintain the proper degree of tension of the chains O while the platform is being hoisted by means of the rope C, as well as to cause the pieces H to bear against each other at I, and the points J to bear against the elevator-70 frame A, and thus prevent the descent of the platform D, should any breakage occur in the hoisting machinery.

Having described my invention, what I desire to secure by Letters Patent, and claim, is—75

1. In an elevator, the platform D, provided with a frame consisting of the uprights F, transverse pieces f, and short pieces f', in combination with the castings H, having the rounded bearing-surfaces I, and serrated points 80 J, pivoted to said framé, the springs Q, and the frame A, substantially as described, and for the purposes set forth.

2. In an elevator, the frame A, having at the top thereof the pulley B, the platform D, 85 having uprights F, transverse pieces f, and short pieces f', in combination with the hoisting-rope C, ring E, chains N O, yoke-shape pieces L, and bolts K, the castings H, and springs Q, all arranged and operated in the 90

manner herein described.

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

CASH C. THOMAS.

Witnesses:

W. P. LEONARD, G. C. PURDUE.