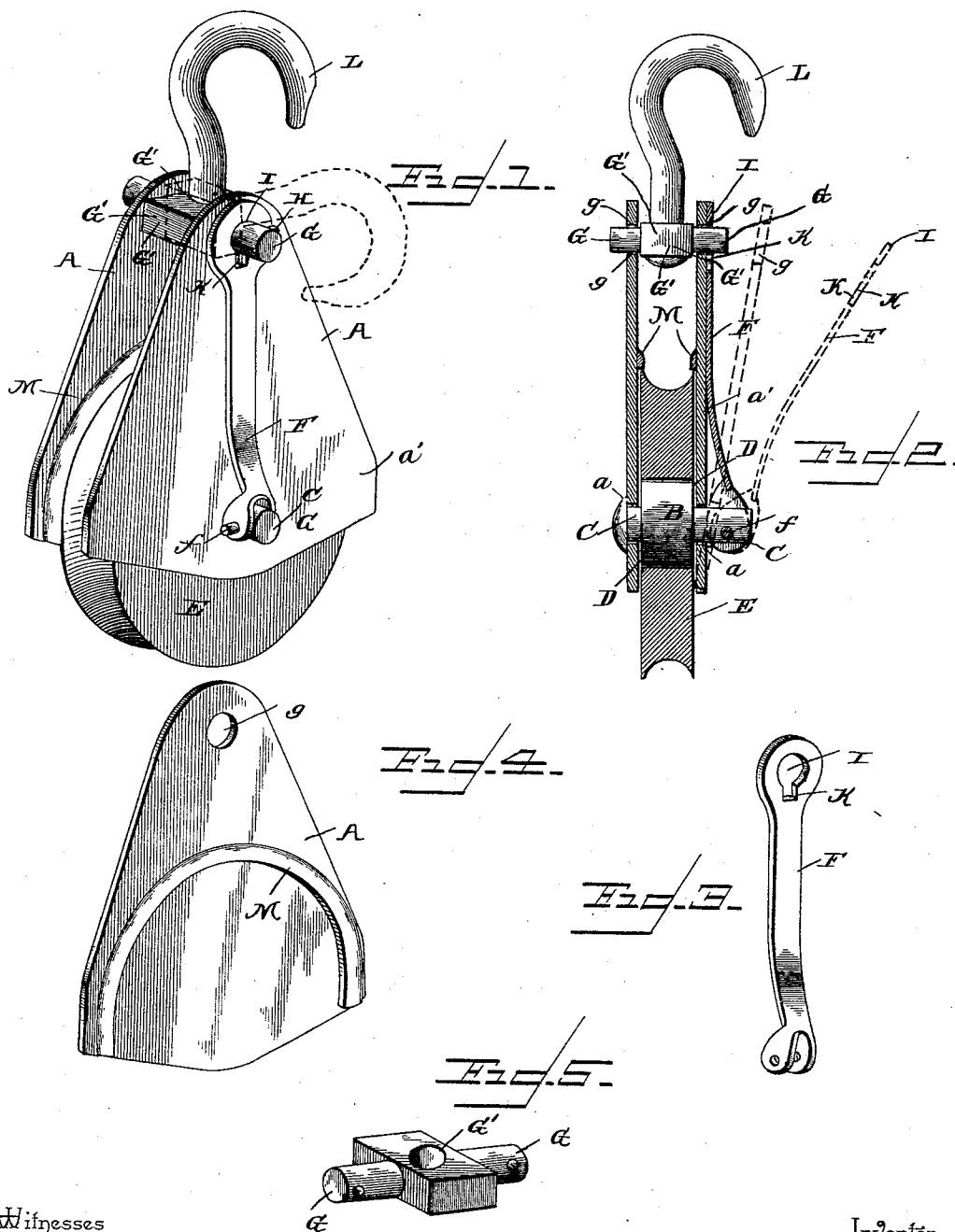


(No Model.)

G. HARVEY.
SNATCH BLOCK.

No. 487,734.

Patented Dec. 13, 1892.



Witnesses
E. H. Stewart.

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By his Attorneys,

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UNITED STATES PATENT OFFICE

GEORGE HARVEY, OF SAN FRANCISCO, CALIFORNIA.

SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 487,734, dated December 13, 1892.

Application filed August 10, 1892. Serial No. 442,705. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HARVEY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Snatch-Block, of which the following is a specification.

My invention relates to improvements in snatch-blocks, the object in view being to provide a simple, cheap, and durable block which will have the requisite strength to withstand the strain to which such devices are ordinarily subjected and which may be readily opened and closed for the purpose of inserting and removing the cable.

A further object of my invention is to provide improved means for locking the removable cheek-piece in place.

A further object of my invention is to provide means for preventing the rope or cable from working between the sides of the pulley and the inner surfaces of the cheek-pieces.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a snatch-block embodying my invention. Fig. 2 is a vertical central sectional view of the same. Fig. 3 is a detail perspective view of the cam-lever detached. Fig. 4 is a similar view of the removable cheek-piece detached. Fig. 5 is a similar view of the head and cross-bar detached.

A A represent the cheek pieces or plates, near the lower ends of which are registering openings *a a*, in which is arranged the transverse pivot-pin B. The extremities of this pivot-pin, which pass through the cheek-plates, are reduced, as seen at C C, thus forming shoulders D D, against which the cheek-plates bear to hold them out of contact with the sides of the interposed pulley E. The intermediate portion of the pivot-pin is made large to form a firm bearing for the pulley, as shown.

The removable cheek-plate, which is designated as *a'*, is adapted to be disengaged from that end of the pivot-pin which extends there-through, and to the laterally-projecting end of said pin is pivotally connected the cam-lever

F. The cam-lever is bifurcated to enable its branches to lie upon opposite sides of the end of the pivot, the same being secured thereto by a transverse pin *f*.

In registering apertures *g g* at the upper ends of the cheek-plates is mounted the transverse bar G, which is adapted to turn in its bearings, that end of said bar which passes through the removable cheek-plate being provided with a short lateral stud H, as shown. The free end of the cam-lever is provided with an eye I to fit the projecting end of the cross-bar G, said eye being provided with a notch K to pass over the lateral stud upon said cross-bar.

L represents the hook or bail, which is swiveled in the head G', carried by the cross-bar, said hook being headed below the head G' to prevent detachment. When the hook is in the position shown in Fig. 1 in full lines, the transverse or lateral stud which is carried by the cross-bar is out of alignment with the notch in the eye of the cam-lever, and therefore the lever is held firmly in place with its cams pressing against the outer surface of the removable cheek-plate. When the hook is turned to the position shown in dotted lines in said figure or horizontal, the said stud is in alignment with the notch in the eye of the cam-lever, and the free end of the latter may be swung outwardly, as shown in dotted lines in Fig. 2, to remove the pressure of the cams from the cheek-plate, and thus allow said plate to be swung laterally, as shown in dotted lines in Fig. 2, for the insertion of the cable.

To the inner surfaces of the cheek-plates and following closely the contour of the pulley are secured the curved guiding-ribs M M, which are provided at their inner edges with shoulders to cover the interval between the side of the pulley and the surface of the plate and tapered toward their outer edges, as shown, whereby the cable is prevented from becoming jammed therebetween and provide a smooth running surface for the cable.

The operation of my improved snatch-block will be readily understood from the foregoing description.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a snatch-block, the combination, with

the parallel cheek-plates, one of which is removable, the pulley and the pivot-pin upon which said pulley is mounted, of the cam-lever fulcrumed upon the projecting end of said pivot-pin and bearing against the outer surface of the removable cheek-plate to hold it in place, substantially as specified.

2. In a snatch-block, the combination, with the cheek-plates, one of which is removable, the pulley, and the pivot-pin having an enlarged body portion and reduced extremities which extend through the cheek-plates, of the cam-lever pivotally connected to the extremity of the pivot-pin in juxtaposition to the removable cheek-plate, and means for securing the free end of said lever, substantially as specified.

3. In a snatch-block, the combination, with the cheek-plates connected by a pivot-pin provided with shoulders to bear against the inner surfaces of said cheek-plates, of the cross-

bar mounted in apertures in the upper ends of the cheek-plates and carrying a hook or bail and a lateral stud, and the cam-lever fulcrumed upon the projecting end of the pivot-pin and provided with an eye having a notch to receive the projecting end of said cross-bar, substantially as specified.

4. In combination with a snatch-block having a removable cheek-plate, a cam-lever fulcrumed thereto in proximity to the removable cheek-plate and adapted to engage the same to hold it in its operative position, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE HARVEY.

Witnesses:

JOHN H. CARAH,
ARTHUR BARNES.