

(No Model.)

P. KING.
PULLEY BLOCK.

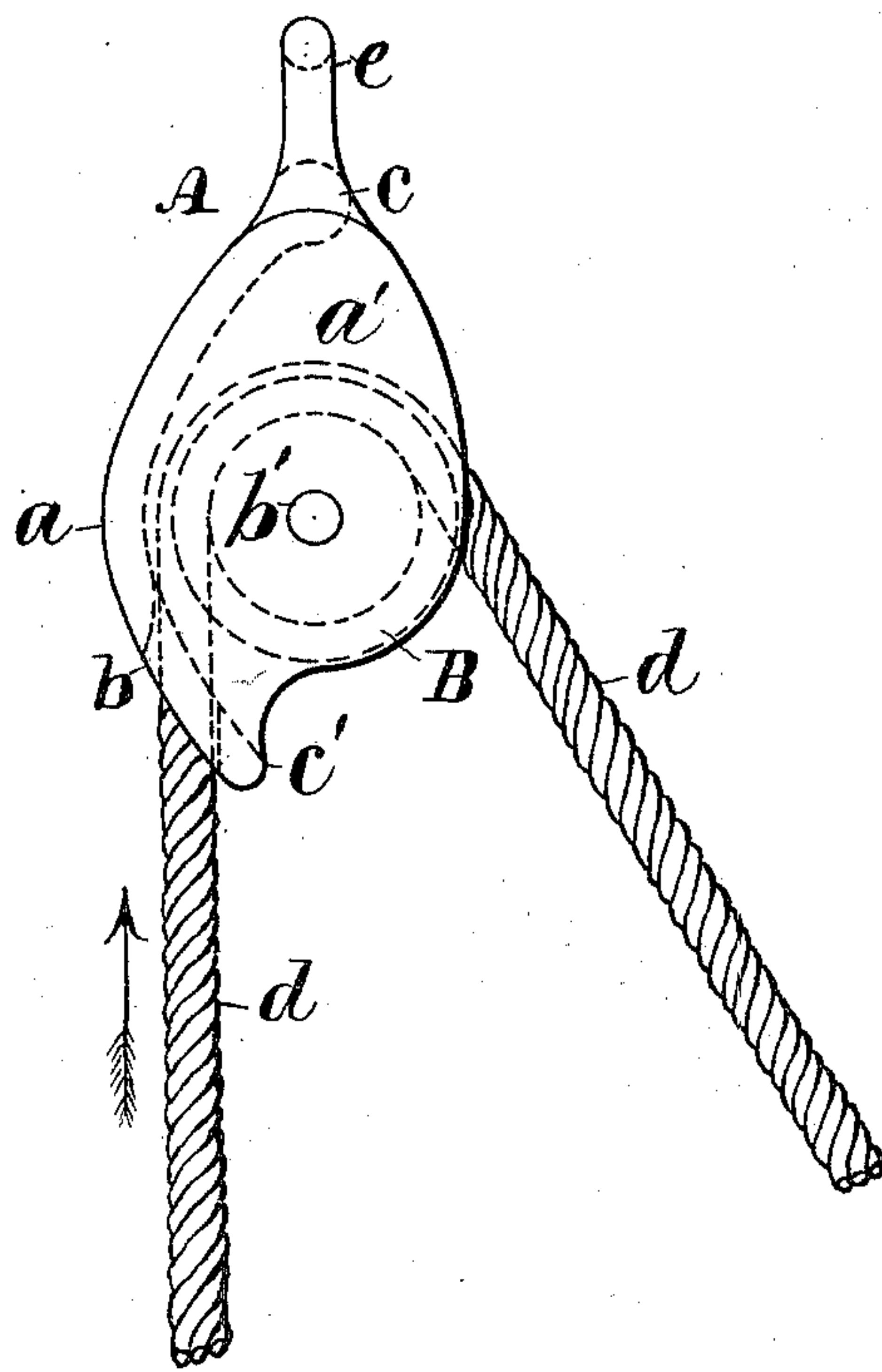
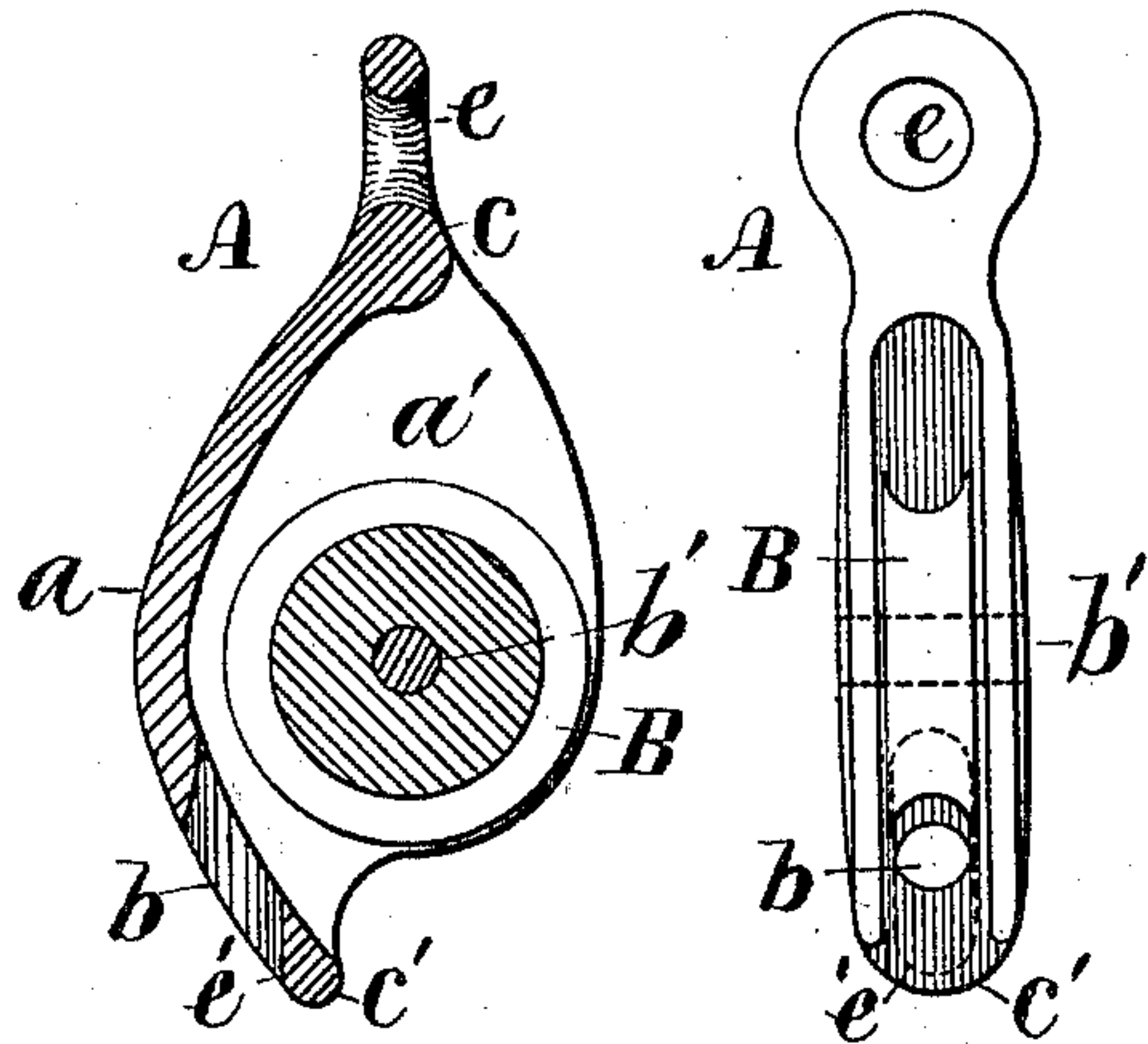
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Fig.1.

Fig.2.

Fig.3.



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UNITED STATES PATENT OFFICE.

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PULLEY-BLOCK.

SPECIFICATION forming part of Letters Patent No. 286,021, dated October 2, 1883.

Application filed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, PETER KING, a citizen of the United States, residing at Springfield, in the county of Clarke and State of Ohio, have
5 invented certain new and useful Improvements in Pulley-Blocks; and I do 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
10 use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in
15 pulley-blocks.

My invention relates to that class of pulley-blocks which are used with a single sheave to fold awnings, and to elevate loose fibrous substances—such as hay or straw—when applied
20 to hay-carriers.

The object of my invention is to prevent the folds of cloth in an awning, or the hay or straw when used in a hay-carrier, from being drawn into the block by the rope passing over the
25 sheave. To accomplish this I construct the block in a peculiar manner, with a guard extending over the face of the sheave, on one side, from end to end of the same. Below the axle of the sheave is a throat-hole, having an
30 extended lip to give the inrunning rope a smooth bearing, and to shut off any loose substances which may be drawn up with the pulley-block.

Figure 1 is a vertical section of a pulley-block embodying my improvements. Fig. 2
35 is a view of the pulley-block entire from the open side, corresponding with the right side in Figs. 1 and 3. Fig. 3 is a side elevation of the pulley-block with the rope applied to the
40 same.

A is the pulley-block, and B the sheave, which is pivoted upon a pintle or axle, *b'*, extending through the cheeks of the block A, in the usual manner, from side to side. The general configuration of the block A, viewed in
45 side elevation, as seen in Fig. 3, is that of a flat ellipsoid, with an incurvation at the lower end, on the right side, cutting away a portion of that shaped figure. The cheeks *a'* of the
50 block are connected over the face of the sheave B, on the left side, from the point *c* at the eye

end to the extreme point *c'* below the sheave, only a throat-hole, *b*, being left therein, as seen in the figures. The web *a*, which thus connects the cheeks *a'*, forms much the longest
55 side of the block, it being made with a lip-extension, *e'*, to allow the throat-hole *b* to be made as low down as possible, in order to guide the inrunning rope *d* as nearly straight upward as is practicable, or as near the central longitudinal line of the block as the sheave
60 will allow. It will be noticed by reference to the figures that in raising a weight the rope *d* is always run in one direction, as indicated by the arrow in Fig. 3, the construction of the block
65 conforming to this mode of operating it. The eye *e* at the top of the block differs in no respect from that used in ordinary suspension-blocks, and may be changed to a hook without materially changing the invention. The
70 web *a* forms a guard to prevent any loose fibrous substance from being drawn into the swallow of the block through the throat-hole *b*.

In operating the block for the purpose of elevating the hay, straw, or other like substances which are mowed away in the barn
75 or stacked in the field, the block is suspended in the position shown in Fig. 3, the rope running, as shown, and any portion of the straw or hay which may be clinging to the rope when
80 the block is used either with a hay-fork or simply with a hook, and the rope *d* looped around the bundle of hay to be lifted, will be prevented from entering the hole *b*, and thence
85 into the swallow of the block, by that portion of the web *a* surrounding said hole, and particularly by the projecting lip *e'*, which will have a tendency to divide the lock of hay
90 which clings to the rope and burst the interlocked straws or fibers of the same asunder and cause it to drop again to the ground, as the closing of the entire left or up-run side of
the block *a*, except where the rope enters *b*, effectually prevents any lodgment of the hay
95 upon the block. In using my invention as an awning-block it is suspended with the closed side *a* upward. In this position its operation in preventing the folds of the awning from being drawn into the swallow would be entirely
prevented by the web-connection *a*, and the
100 awning-folds would be carried upon or over that part of the block, as the rope extends un-

der the awning from the front of the building outward to the front bar of the awning-frame.

I claim as my invention—

1. A pulley-block having its cheeks connected upon one side by a web, through which is formed a throat-hole for the passage of the rope inward over the sheave, said throat-hole being below the axis of the sheave, substantially as and for the purpose hereinbefore set forth.

2. A pulley-block having one of its sides closed over the face of the sheave, and provided with a hole through said closed side, whereby the rope is directed in a line parallel with the central longitudinal line of the block in running over the sheave, and hay or other like loose substance elevated by the rope is prevented from entering the swallow of the pulley, substantially as set forth.

3. Block A, having the web *a*, connecting

the cheeks *a'* on one side of the same, and extending from the eye *e* to the point *e'*, and provided with a throat-hole, *b*, having an extended lip, *e'*, said throat-hole leading into the swallow of the block, for the passage of the rope *d* upward over the sheave B, substantially as and for the purpose set forth.

4. The combination, with the sheave B and its pintle *b'*, of the block A, having its cheeks *a'*, connected by the web *a* from the eye to the lower extended end *e'* on one side with a throat-hole, *b*, therein, and having the other side open, substantially as and for the purpose hereinbefore set forth.

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

PETER KING.

Witnesses:

B. C. CONVERSE,
THOS. STRONG.