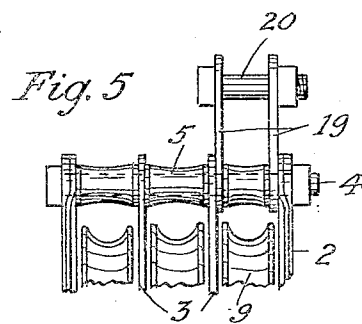
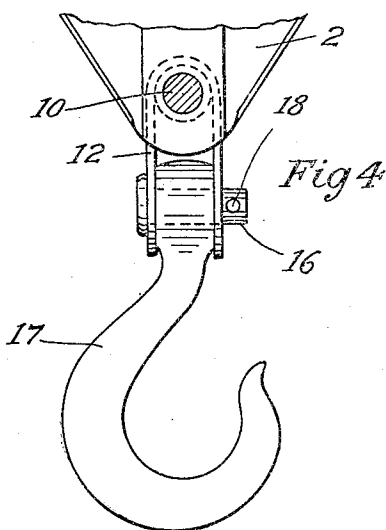
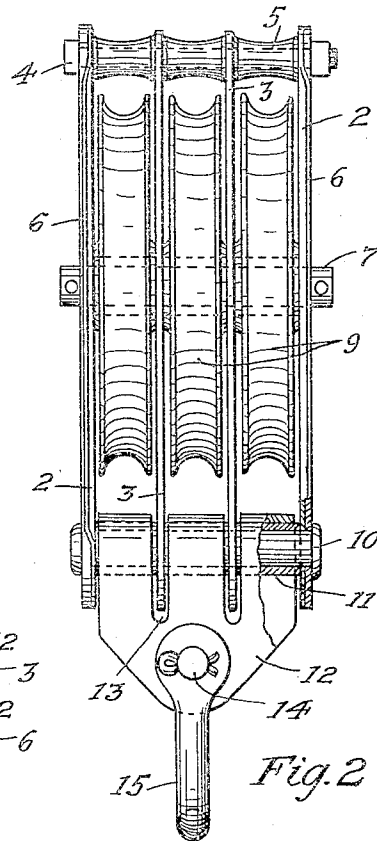
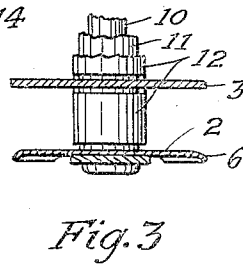
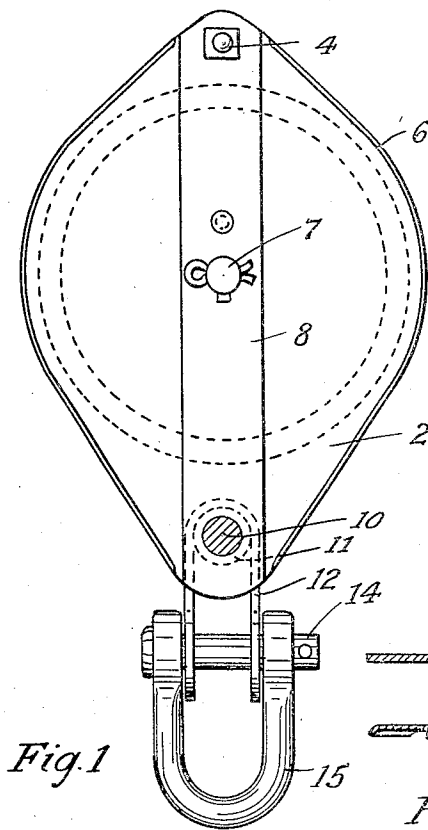


H. LE R. BRINK.  
SHEAVE BLOCK.  
APPLICATION FILED JUNE 24, 1918.

1,337,341.

Patented Apr. 20, 1920.



Inventor:  
Harry LeRoy Brink.  
By Paul & Paul,  
his Attorneys

# UNITED STATES PATENT OFFICE.

HARRY LE ROY BRINK, OF ST. PAUL, MINNESOTA, ASSIGNOR TO AMERICAN HOIST & DERRICK CO., OF ST. PAUL, MINNESOTA, A PARTNERSHIP.

## SHEAVE-BLOCK.

1,337,341.

Specification of Letters Patent.

Patented Apr. 20, 1920.

Application filed June 24, 1918. Serial No. 241,626.

*To all whom it may concern:*

Be it known that I, HARRY LE ROY BRINK, a citizen of the United States, resident of St. Paul, county of Ramsey, State of Minnesota, have invented certain new and useful Improvements in Sheave-Blocks, of which the following is a specification.

The object of my invention is to provide a simple, economical construction of sheave block which will cause the load to be uniformly distributed upon all of the block plates.

A further object is to provide a block which can be used conveniently either with a shackle or hook, as desired.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification,

Figure 1 is a side elevation of a sheave block embodying my invention,

Fig. 2 is an edge view of the same,

Fig. 3 is a detail sectional view showing the manner of mounting the shackle supporting stirrup on the block plates,

Fig. 4 is a detail view, showing the manner of mounting a hook in place of the shackle on the stirrup,

Fig. 5 is a detail view of the upper portion of the block, showing the preferred manner of attaching a becket to the block.

In the drawing, 2 represents the outer plates and 3 the intermediate plates of the block, and 4 a bolt passing through all of the plates at the top of the block and having spacing spools 5 with concave surfaces which come in contact with the rope in the use of the block. The plates 2 have outwardly turned or curved edges 6 to prevent the rope from becoming frayed or worn by contact therewith. 7 is a central shaft passing through all of the plates and also through the side bars or straps 8, which extend from the top to the bottom of the block and have bearings on the ends of the bolt 4 as well as on the shaft 7. These straps serve to brace and stiffen the block and aid in carrying the load.

Upon the shaft 7 and alternating in position with the plates 2 and 3 I provide rope

sheaves 9 of any ordinary or preferred construction. At the lower end of the block is a pin 10 which passes through the side straps and all of the plates and is provided with a series of thimbles 11 which hold the plates apart and prevent them from chafing the sheaves. Upon these thimbles I mount a stirrup 12 bent to a substantially U-shaped form and having slots 13 therein to straddle the lower ends of the plates 3, the lower edges of these slots contacting with the lower ends of the plates and preventing the stirrup from working up in the block sufficiently to contact with and chafe the sheaves or the rope. The stirrup rests upon the spacing thimbles 11 and its ends depend below the lower end of the block and are provided with a pin 14 on which a U-shaped shackle 15 is suspended. Whenever desired, this pin may be removed and a shorter one 16 substituted therefor, for supporting a hook 17 in place of the shackle. The block can thus be easily and quickly converted from one type to the other by the simple removal of a cotter pin 18 and the substitution of one supporting stirrup pin for the other.

In Fig. 5 I have shown a means for attaching a becket to the block, which consists in providing plates 19 mounted on the bolt 4 at each end of one of the thimbles 5 and having a bolt 20 passing through the upper ends thereof.

I claim as my invention:

1. A sheave block comprising outer and intermediate plates spaced apart in parallel relation and sheaves mounted between them, a pin passing through said plates below said sheaves, spacing thimbles mounted on said pin between said plates and a sheet metal stirrup folded into a substantially U-shaped form to rest upon said thimbles and having a slot in its curved portion to receive the lower end of said intermediate plate for limiting upward movement of said stirrup, the depending ends of said stirrup having means for connecting a shackle thereto.

2. A sheave block comprising a pair of outer plates and a pair of intermediate plates spaced apart and in parallel relation, a plurality of sheaves mounted between said plates, a pin passing through said plates be-

low said sheaves, a sheet metal stirrup folded  
to a substantially U-shaped form and sup-  
ported by said pin and having slots extend-  
ing partially therethrough to receive the  
5 lower ends of said intermediate plates, said  
intermediate plates engaging the walls at the  
ends of said slots and limiting the inward  
movement of said stirrup and said stirrup

having depending ends provided with means  
for attaching a shackle or hook thereto. 10

In witness whereof I have hereunto set  
my hand this 11th day of June, 1918.

HARRY LE ROY BRINK.

Witnesses:

E. M. BOEGE,  
C. B. MORAN.