

901,144.

J. BASS.
SHEAVE BLOCK.
APPLICATION FILED APR. 7, 1908.

Patented Oct. 13, 1908.
2 SHEETS—SHEET 1.

Fig. 1.

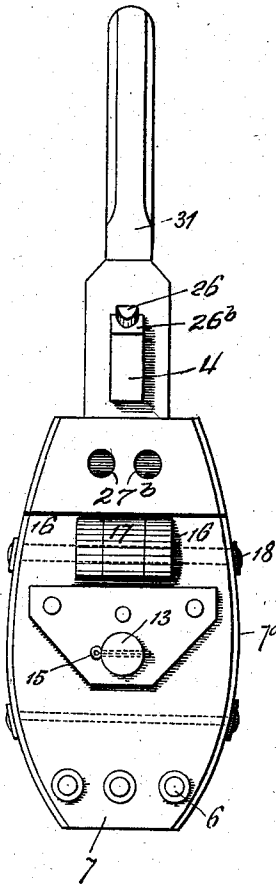


Fig. 2.

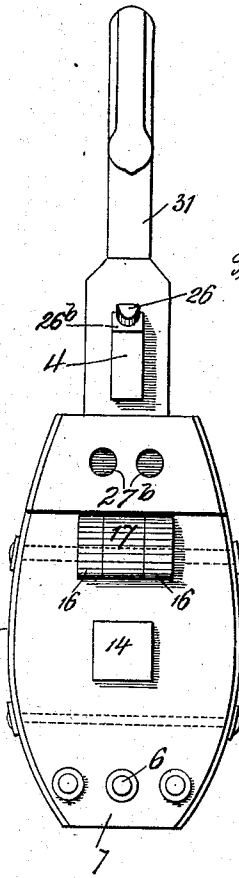
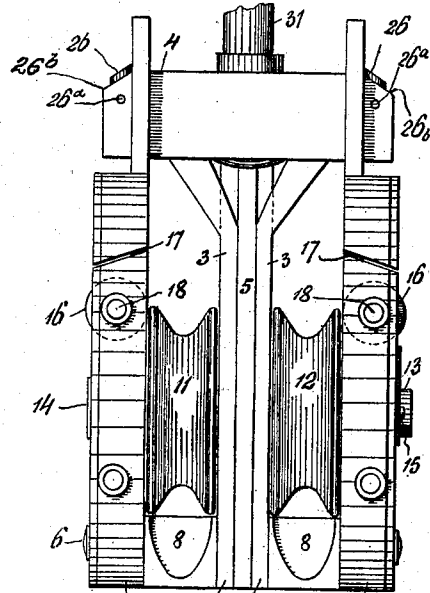
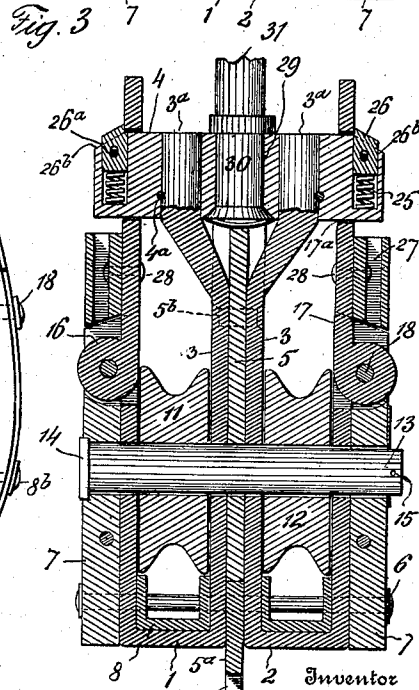


Fig. 4.

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SHEAVE BLOCK.
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2 SHEETS—SHEET 2.

Fig. 5.

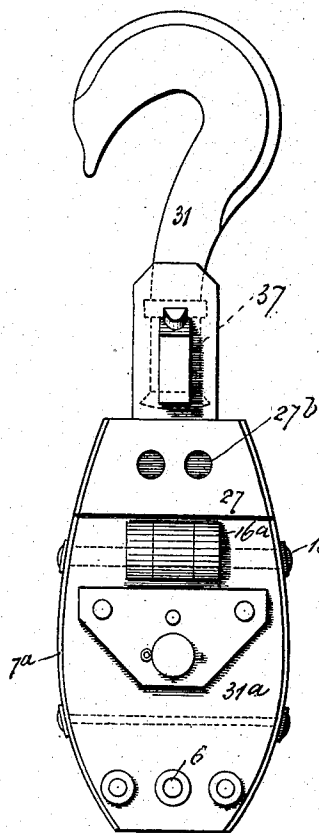


Fig. 6.

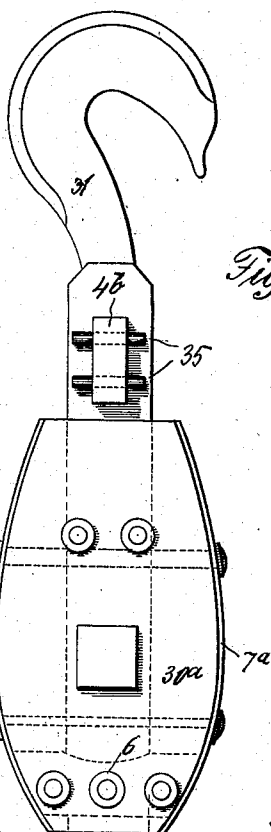


Fig. 7.

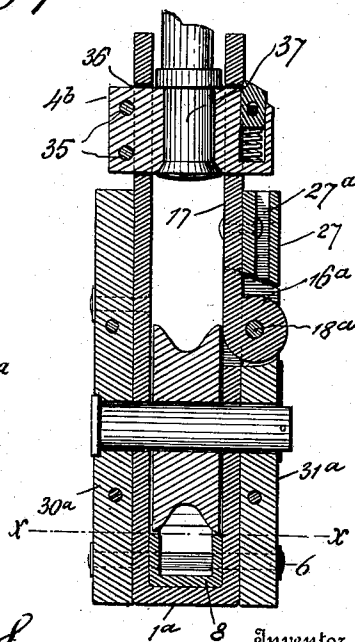


Fig. 8a.

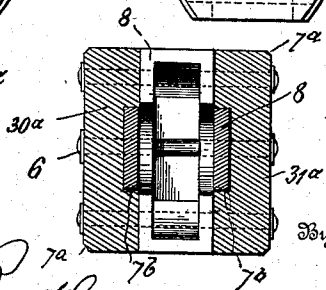


Fig. 8.

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UNITED STATES PATENT OFFICE.

JOHN BASS, OF McKEES ROCKS, PENNSYLVANIA.

SHEAVE-BLOCK.

No. 901,144.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed April 7, 1908. Serial No. 425,752.

To all whom it may concern:

Be it known that I, JOHN BASS, a citizen of the United States of America, residing at McKees Rocks, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sheave-Blocks, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to sheave blocks and its objects are, first, to provide a block with a novel gate to facilitate the placing of a cable in engagement with a sheave; second, to obviate the necessity of passing a cable
15 over a sheave end first; third, to provide a block of strong and durable construction having a hinged gate and novel and effective means for securing the gate to the block.

20 The present invention relates to certain new and useful improvements upon my sheave block for which Patent No. 835,877 was granted Nov. 13th, 1906.

25 The improvements upon my patent are, first, a novel latch for holding the gate of the block in a closed position; second, spacing blocks for spacing the cheek pieces of the block; third, a combined pivot and reinforcing pin; and fourth, a block having a metallic gate secured to an arm provided with
30 wood cheek pieces, thereby providing a light and durable sheave block. These improvements will be presently described in detail and then specifically pointed out in the appended claims.

35 Referring to the drawing forming a part of this specification, Figure 1 is a view of one end of a double sheave block constructed in accordance with my invention, Fig. 2 is a view of the opposite end thereof, Fig. 3 is a front elevation of the double sheave block partly broken away, Fig. 4 is a central vertical section of the same, Fig. 5 is a view of one end of a single sheave block, Fig. 6 is a view of the opposite end thereof, Fig. 7 is a front elevation of the same, Fig. 8 is a central vertical section of the same, and Fig. 8^a is a horizontal sectional view taken on the line *x-x* of Fig. 8.

40 Referring to Figs. 1 to 4 inclusive, two reference numerals 1 and 2 designate two oppositely disposed U-shaped metallic plates serving as a shell of the block, the inner wall 3 of each of said plates extending upwardly and outwardly and terminating in shanks 3^a
45 secured in a gate block 4 by pins 4^a. The shell plates 1 and 2 are separated by spacing

plates 5 and 5^a, the latter projecting beyond the bottom of the block and having an opening 5^b to receive a cable or hook, while the former is riveted or otherwise secured, as at 5^b, to the inner walls 3 of the shell. 60

Secured to the outer walls of the shell by tie rods 6 are cheek pieces 7, said cheek pieces having chamfered edges 7^a, and their confronting faces cut away, as at 7^b to receive the outer walls of the shells 1 and 2. The tie rods 6 pass through spacer blocks 8 arranged within the U-shaped shell plates 1 and 2, these spacer blocks preventing the shell from collapsing. The cheek pieces 7
65 are provided with rivets 8^b and with pivot pins 18, said rivets and pins being arranged transversely of the grain of the wooden cheek pieces to prevent said pieces from slipping. 70

75 Sheaves 11 and 12 are journaled upon a pin 13 supported in bearings of the cheek pieces, and extending through alining openings in the shell of the spacing blocks. This pin 13 is secured at one end by an integral head 14 and at its opposite end by a cotter pin 15. 80

The outer walls of the shell plates 1 and 2 are provided near their upper ends with two projecting parallel lugs 16 between which is pivotally secured the lower end of arms 17 by the pivot pins 18. These arms are formed with openings 17^a to receive the gate block 4, and are oppositely disposed as shown. 85 90

The gate block 4 is formed near each of its ends with a recess 25 to receive the lower ends of the spring pressed latches 26, best shown in Fig. 3 of the drawings. These latches are retained within the recesses by transverse pins 26^a carried by the gate block 4 and extending through slots provided therefor in the latches 26, these latches extend upwardly to engage the outer sides of the arms 17 and retain said arms in a closed position. 95 100

The ends of the gate block are beveled as at 26^b to permit of the arms swinging outwardly as will presently appear.

To each of the pivoted arms 17 is secured by means of rivets 28, a gate 27, said gates forming extensions of the cheek pieces 7, when closed. These gates are recessed as at 27^a and provided with openings 27^b, whereby the rivets 28 can be easily placed in position and riveted. 105 110

The gate block 4 is provided with a cen-

tral bearing 29 to receive the head 30 of a swiveled hook 31.

Reference will now be had to Figs. 5 to 8 inclusive, illustrating the invention as applied to a single sheave block. In these figures the shell consists of only a single metallic U-shaped plate 1^a having cheek pieces 30^a and 31^a bolted thereto. The upper end of the short wall of the shell is formed with lugs 16^a between which is pivotally secured an arm 17 carrying the gate 27. A pivot pin 18^a is employed for pivotally connecting the arm 17 to the lug 16^a, said pivot pin extending transversely of the cheek piece 31^a.

The gate block 4^b is shorter than the block 4 of the double sheave block, and said gate block is retained in engagement with the longer wall of the shell by pins 35, these pins holding the gate block in an opening 36 provided therefor in the longer arm or wall of the shell. The opposite end of the gate block is provided with a spring latch, the same as that already described, also with a swivel 37, and it is obvious that the operation of my improvement in the single sheave block is the same as already described in the double block.

I desire to call attention to the fact that the gates can be easily and quickly removed for repairs by withdrawing the pivot pins 18 and 18^a, and the metallic parts of my blocks insure greater strength and durability than if wood were used.

The invention as above described is susceptible to such changes as are permissible by the appended claims.

Having now described my invention what I claim as new, is:—

1. In a double sheave block, two oppositely disposed U-shaped shell plates, said shell plates terminating in cylindrical shanks, a gate block supported by said shanks and having tapering ends, cheek pieces embracing the outer walls of said shell plates, spacer blocks arranged in the lower ends of said shell plates, and connected to said cheek pieces, oppositely disposed arms, pivot pins arranged transversely of said cheek pieces for pivotally connecting said arms to the outer walls of said shell plates, said arms having their upper ends provided with openings to receive the tapering ends of said gate block, a spring pressed latch arranged in each end of said gate block for engaging the upper end of each arm, substantially as described.

2. A sheave block comprising a metallic shell, perforated lugs carried thereby, an arm pivotally secured between said lugs and provided near its upper end with an opening, a gate secured to said arm, a block supported on said shell and having its end received in the opening in said arm and projecting

beyond the same, the said gate block provided in the upper face of said projecting portion with a recess, and a spring-pressed latch arranged in said recess and adapted to engage the outer face of said arm.

3. A sheave block comprising a U-shaped shell, an arm pivotally secured thereto and provided near its upper end with an opening, a gate block secured to said shell and having one end extending through the opening in said arm and projecting beyond the same, said block having a recess formed in the upper face of said projecting portion, a spring-pressed latch arranged in said recess and adapted to engage the outer face of said arm, and a swivel hook carried by said gate block.

4. A sheave block comprising a U-shaped shell, a gate block supported by one wall of said shell, lugs carried by the other wall of the shell at its upper end, an arm pivotally secured to said lugs and provided near its upper end with an opening to receive one end of said gate block, said gate block projecting beyond said arm and provided in the upper face of the end projecting beyond said arm with a recess, a spring-pressed latch arranged in said recess and engaging the outer face of said arm when the latter is in closed position, a U-shaped spacer-block between the walls of said shell at the lower end thereof, cheek pieces embracing the walls of said shell, and a hook carried by said gate block.

5. A sheave block comprising a substantially U-shaped shell having a long and a short wall, a gate block supported by the longer wall, an arm hinged to the shorter wall and provided near its upper end with an opening to receive one end of the gate block, means carried by the gate block for securing said hinged arm in engagement therewith, and a U-shaped spacer-block mounted between the walls of the shell at the lower ends thereof.

6. A sheave block comprising a substantially U-shaped shell having a long and a short wall, a gate block supported by the longer wall, lugs carried by the shorter wall, cheek-pieces engaging the outer faces of said walls and secured thereto, a reinforcing pin passed through the cheek-piece engaging the shorter wall and through said lugs, a metallic arm hinged to said shorter wall with said pin as a pivot, and means carried by the gate block for securing the arm in a closed position.

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

JOHN BASS.

Witnesses:

MAX H. SROLOVITZ,
K. H. BUTLER.