

T. H. Rice,

Sheave Block.

No. 106,507.

Patented Aug. 16, 1870

Fig. 1.

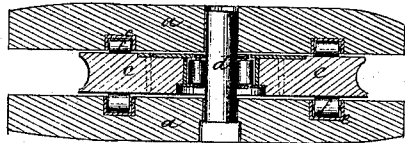
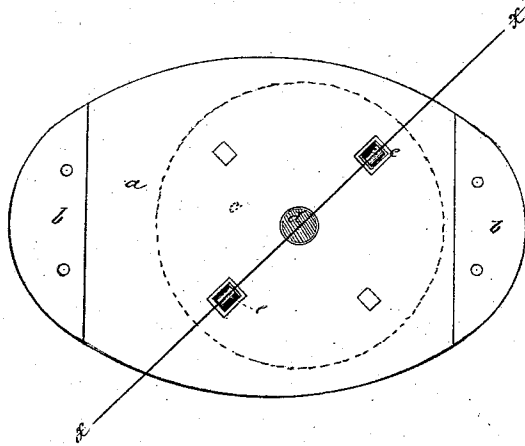


Fig. 2.



Witnesses.

H. J. Smith
Thos. D. D. Orand.

Thomas H. Rice, Inventor.

by *Wm. H. P.*
His Attorneys.

United States Patent Office.

THOMAS H. RICE, OF BALTIMORE, MARYLAND.

Letters Patent No. 106,507, dated August 16, 1870.

IMPROVEMENT IN SHEAVE-BLOCKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, THOMAS H. RICE, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and improved Sheave-Block; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a diagonal vertical section through the block, and

Figure 2 is an elevation of the inner surface of one side of the block, showing the friction-rollers.

This invention consists of friction-rollers mounted in boxes, which are placed in both the inner sides of a pulley-block, in such manner that the rollers project inward beyond the surfaces of the sides, so as to prevent the sheave from coming in contact with the block and wearing the same away.

In the drawing—

a a are the side pieces of a wooden sheave-block.

b b, the end pieces that are interposed between the side pieces, and fastened to the same by bolts.

c, the sheave placed in the space inclosed between the side and end pieces.

d, the shaft on which the sheave rotates.

e e are metal boxes let flush into the inner surfaces of the side pieces *a*.

f are friction-rollers mounted in said boxes, and projecting beyond the inner surfaces of the side pieces *a*, so as to prevent the sheave from eating into the same as it rotates. In pulley-blocks destitute of any such provision, the sheave rapidly eats a recess in one or both sides of the block, and thus renders the latter useless. My arrangement prevents all such wear, and greatly contributes to the preservation of the block.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The block *a b*, boxes *e*, and rollers *f*, all arranged as specified.

THOMAS H. RICE.

Witnesses:

THORNTON ROLLINS,
WILLIAM T. RICE.