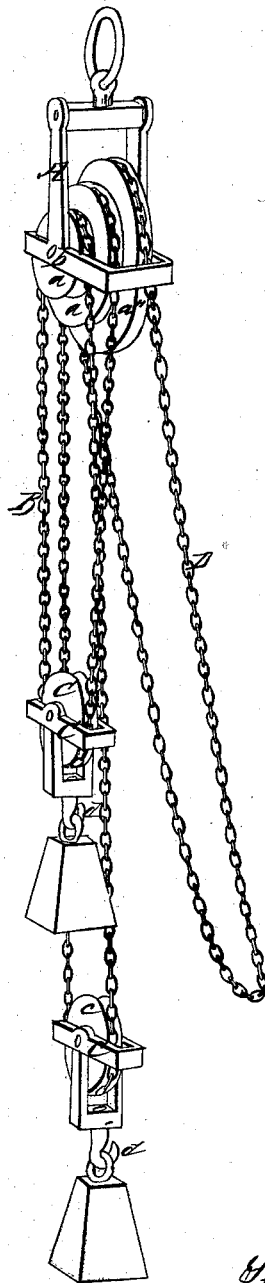


S. Van Hennik,
Differential Pulley.
N^o 47,471. Patented Apr. 25, 1865.



Witnesses.
M. M. Vinton
C. L. Coffey

Inventor.
Sebastian Van Hennik
Chas Allen

UNITED STATES PATENT OFFICE.

SEBASTIAN VAN HENNIK AND THOMAS ALLEN, OF NEW YORK, N. Y.

IMPROVEMENT IN PULLEY-BLOCKS.

Specification forming part of Letters Patent No. 474,471, dated April 25, 1865.

To all whom it may concern :

Be it known that we, SEBASTIAN VAN HENNIK and THOMAS ALLEN, of the city, county, and State of New York, have invented a new and Improved Pulley-Block; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The drawing represents a perspective view of our invention.

This invention consists in providing a pulley-block with an extra or supplemental sheave of larger diameter than the others, and provided with an independent chain or rope, all arranged as hereinafter set forth, whereby considerable power is gained in operating the block or in raising weights thereby.

A represents a frame, in which three sheaves, $a\ a''$, of different diameters, are placed and work on a common shaft. Around the two smaller sheaves $a\ a'$ a chain or rope, also passing around two sheaves, $c\ c$, which are fitted in the frames $C\ C$, provided with hooks d , to which articles to be raised are attached, as clearly shown in the drawing. The sheave a'' is considerably larger in diameter than the sheave a' , and around said sheave a'' a chain or rope, D , passes. This chain or rope D is merely for the purpose of turning the sheaves $a\ a'$, and, in consequence of sheave a'' being

larger in diameter than the sheaves $a\ a'$, it will be seen that a considerable advantage is obtained in the application of power to the block. The chain or rope D , it will be understood, is not connected at all with the chain or rope B . By having the two sheaves $c\ c$ applied to or arranged with the rope or chain B and sheaves $a\ a'$, as shown, one sheave, c , will be raised as the other is lowered, and hence the work of raising articles—such for instance as goods from a vessel—will be greatly facilitated.

This improvement in pulley-blocks will not augment the cost of construction and it will prove to be a valuable acquisition, as a great saving is effected by it both in time and labor.

We claim as new and desire to secure by Letters Patent—

The combination, in a single pulley-block, of the small sheaves $a\ a'$, for carrying the rope or chain B , to which the weight is attached, and the larger sheave a'' , attached rigidly to the first two and carrying the rope or chain D , to which the power is applied, all the parts being constructed and arranged to operate as herein specified.

SEBASTIAN VAN HENNIK.
THOS. ALLEN.

Witnesses :

M. M. LIVINGSTON,
C. L. TOPLIFF.