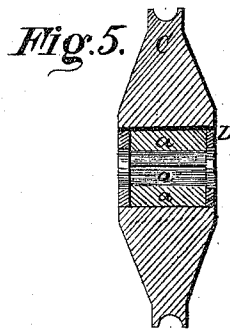
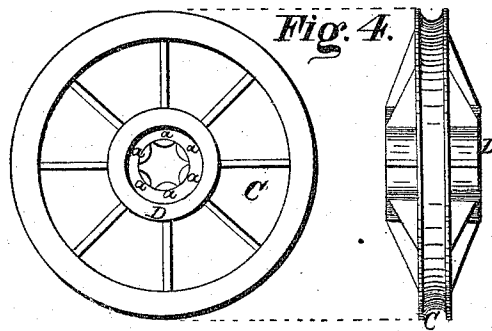
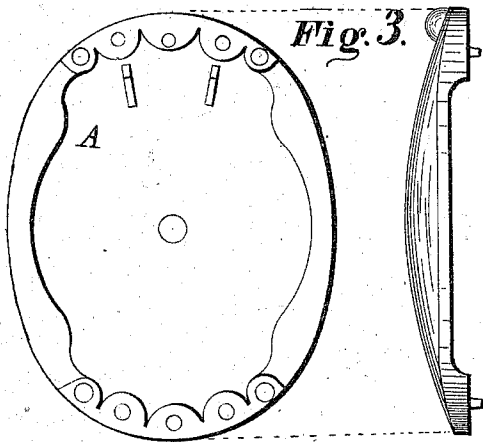
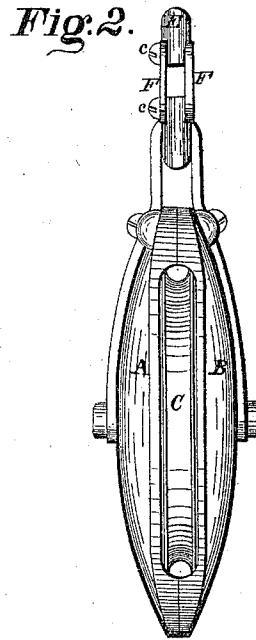
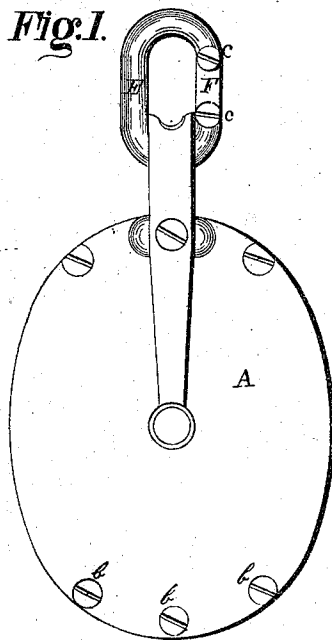


G. A. FORD.
Pulley-Blocks.

No. 142,095.

Patented August 26, 1873.



Witnesses.
A. F. Cornell.
Bradford Howland

Inventor.
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Atty.

UNITED STATES PATENT OFFICE.

GEORGE A. FORD, OF CLEVELAND, OHIO.

IMPROVEMENT IN PULLEY-BLOCKS.

Specification forming part of Letters Patent No. **142,095**, dated August 26, 1873; application filed August 4, 1873.

To all whom it may concern :

Be it known that I, GEORGE A. FORD, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Pulley-Block; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings making part of the same.

Figure 1 is a side view of the pulley-block. Fig. 2 is an edge view. The rest of the figures are detached sections, to which reference will be made.

Like letters of reference refer to like parts in the several views.

The nature of this invention relates to a pulley-block, which has for its object the construction of the sheave with a wide hub, so that it may have a broad bearing-surface on the spindle.

The above-specified pulley-block consists of the sides or shell A B, Fig. 2, in which the sheave C is secured. The sides of the block are made concavo-convex, as shown in Fig. 3, the concave being on the inside, the purpose of which is to accommodate the length of the hub D of the sheave, which, as will be seen in Fig. 4, is much greater than the thickness of the sheave, it being very projecting from each side. Around the hole in the hub is arranged a series of friction-rollers, *a*, Figs. 4 and 5, for the purpose of giving ease and

freedom to the movement of the sheave. The sides or shells of the block are secured to each other by the screws or bolts *b*, which, when together, and the sheave therein, is shown in Figs. 1 and 2.

The special advantage of a pulley-block constructed as above described is that, in giving to the sheave a long or wide hub, it has more bearing-surface on the spindle, and in consequence is much less liable to become cramped thereon, in the event the strain is sidewise instead of being direct in line with the sheave, than is a sheave having a hub no thicker than the rest part thereof, which is liable to cut into the spindle when the strain is sidewise, but which it cannot do when the hub is of the length above described; hence the sheave will run easier and be more durable.

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

The herein-described pulley-block, consisting of the sheave C, constructed with a wide hub, D, as compared with perimeter thereof, in combination with the concavo-convex sides A B for inclosing the sheave, substantially in the manner as and for the purpose set forth.

GEO. A. FORD.

Witnesses:

J. H. BURRIDGE,
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