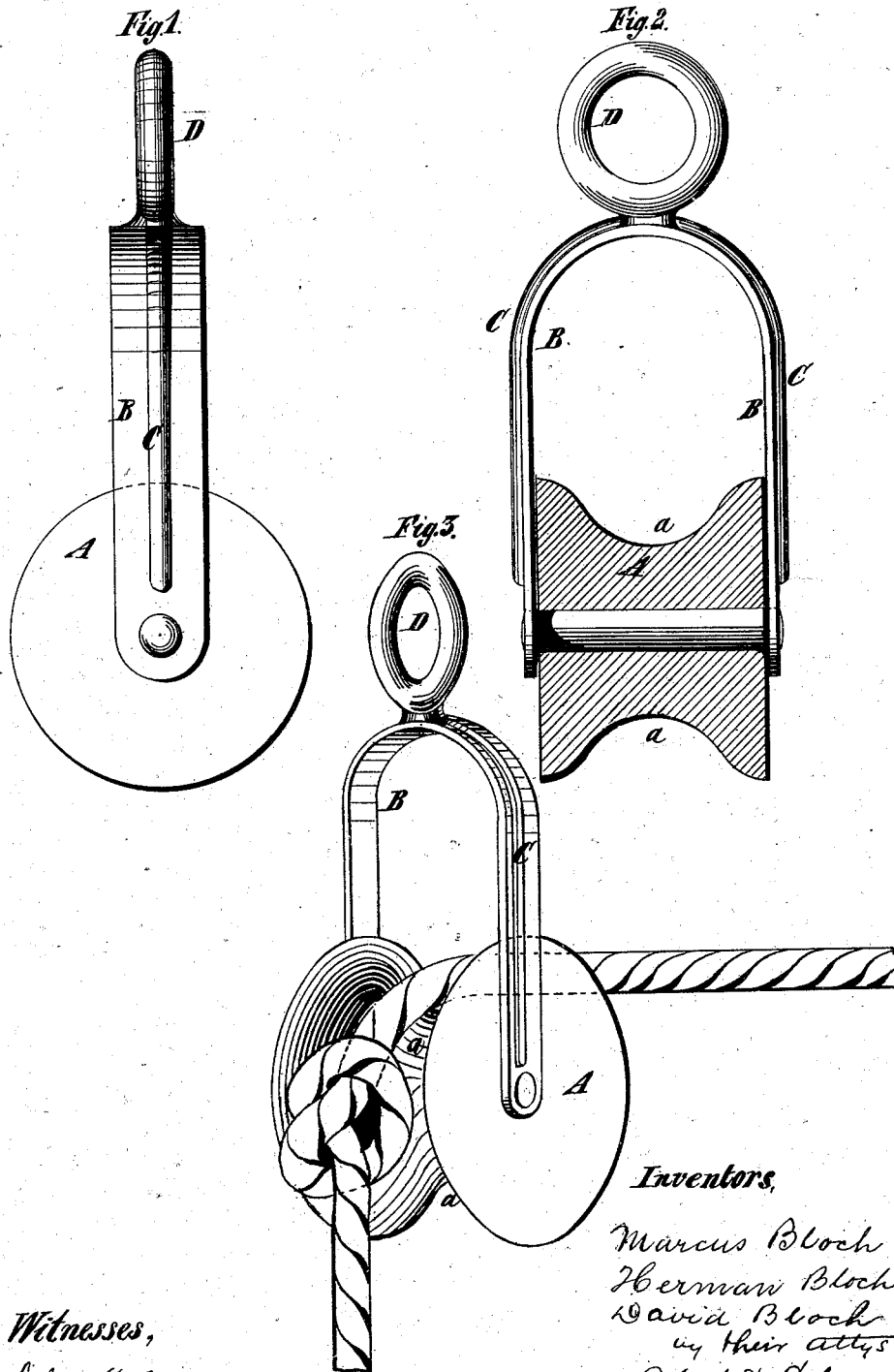


M., H. & D. BLOCH.  
PULLEY.

No. 192,050.

Patented June 19, 1877



Witnesses,  
John H. Beeman  
Thomas Plymck

Inventors,  
Marcus Bloch  
Herman Bloch  
David Bloch  
by their attys  
Schatz & Salmon.

# UNITED STATES PATENT OFFICE.

MARCUS BLOCH, HERMAN BLOCH, AND DAVID BLOCH, OF NEW YORK, N. Y.

## IMPROVEMENT IN PULLEYS.

Specification forming part of Letters Patent No. 192,050, dated June 19, 1877; application filed April 9, 1877.

*To all whom it may concern:*

Be it known that we, MARCUS BLOCH, HERMAN BLOCH, and DAVID BLOCH, all of the city, county, and State of New York, have jointly invented certain new and useful Improvements in Pulleys, of which the following is a description:

This invention relates to pulleys for suspending lines or ropes upon which clothes are hung to dry.

It consists in the new article of manufacture, of a pulley having a wide deeply-grooved wooden wheel and a long straight-edged narrow shackle, provided with a suspending device, and with external strengthening-ribs, whereby a simple and cheap article is afforded, wherein, owing to the great space between the wheel and shackle, provision is afforded for the passage of any rope; owing to the small extent of contact between the wheel and shackle, little friction will be generated, and owing to the difference in the material of the said parts, their binding and becoming inoperative through corrosion or warping is obviated, and withal the advantages of the wooden wheel in obviating the soiling of the line, and injury to articles being thereon, by the corrosion, as occurs with a metal wheel, is obviated.

In the accompanying drawing, Figure 1 is a side view of a pulley embodying our invention. Fig. 2 is a front view of the same, showing the wheel in section; and Fig. 3 is a perspective view thereof, showing a knotted rope in it.

Similar letters of reference designate corresponding parts in all the figures.

A designates a wooden wheel, having a very wide and deeply-grooved periphery, *a*, and mounted on a suitable axle. B designates a shackle, consisting of a very narrow straight-edged piece of metal, supporting the axle of the wheel A, and extending a long distance beyond the periphery of said wheel, so as to afford ample space for the passage of a rope, howsoever knotty or cumbersome. This shackle is strengthened externally by longitudinal

ribs C, and provided with a suspending device, here represented as an eye, D.

The advantages possessed by this novel pulley are numerous. First, the wide groove in the wheel and great space between it and the shackle and the narrowness of the shackle permit the passage of any rope, howsoever cumbersome and knotty; second, the narrowness of the shackle, and consequent smallness of surface contact between the parts, prevents them from generating friction and impairing the operation of the pulley; and, third, the difference in the material of wheel and shackle precludes the pulley from becoming inoperative through corrosion or warping; fourth, it combines the merits of both the wooden and metal pulley, the former inasmuch as the rope, and incidentally the clothes being thereon, will not be soiled through corrosion, the latter inasmuch as it will always work easily.

These advantages of precluding the pulley from becoming inoperative are of vast importance. They make the pulleys much safer to use. Such pulleys are used with lines stretched from windows, and anything impairing their action induces the persons using them to lean out, and is apt to occasion their falling out and injuring themselves.

We do not claim, broadly, a pulley having a deeply-grooved wide wheel and long shackle; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

A new article of manufacture, consisting of a pulley, A, made of wood, and having a wide deeply-grooved periphery, and a long narrow shackle, D, made of metal, strengthened externally with longitudinal ribs C, and provided with a suspending device, substantially as and for the purposes set forth.

MARCUS BLOCH.  
HERMAN BLOCH.  
DAVID BLOCH.

Witnesses:

JOHN H. BELLAMY,  
THOMAS J. LYNCH.