

(No Model.)

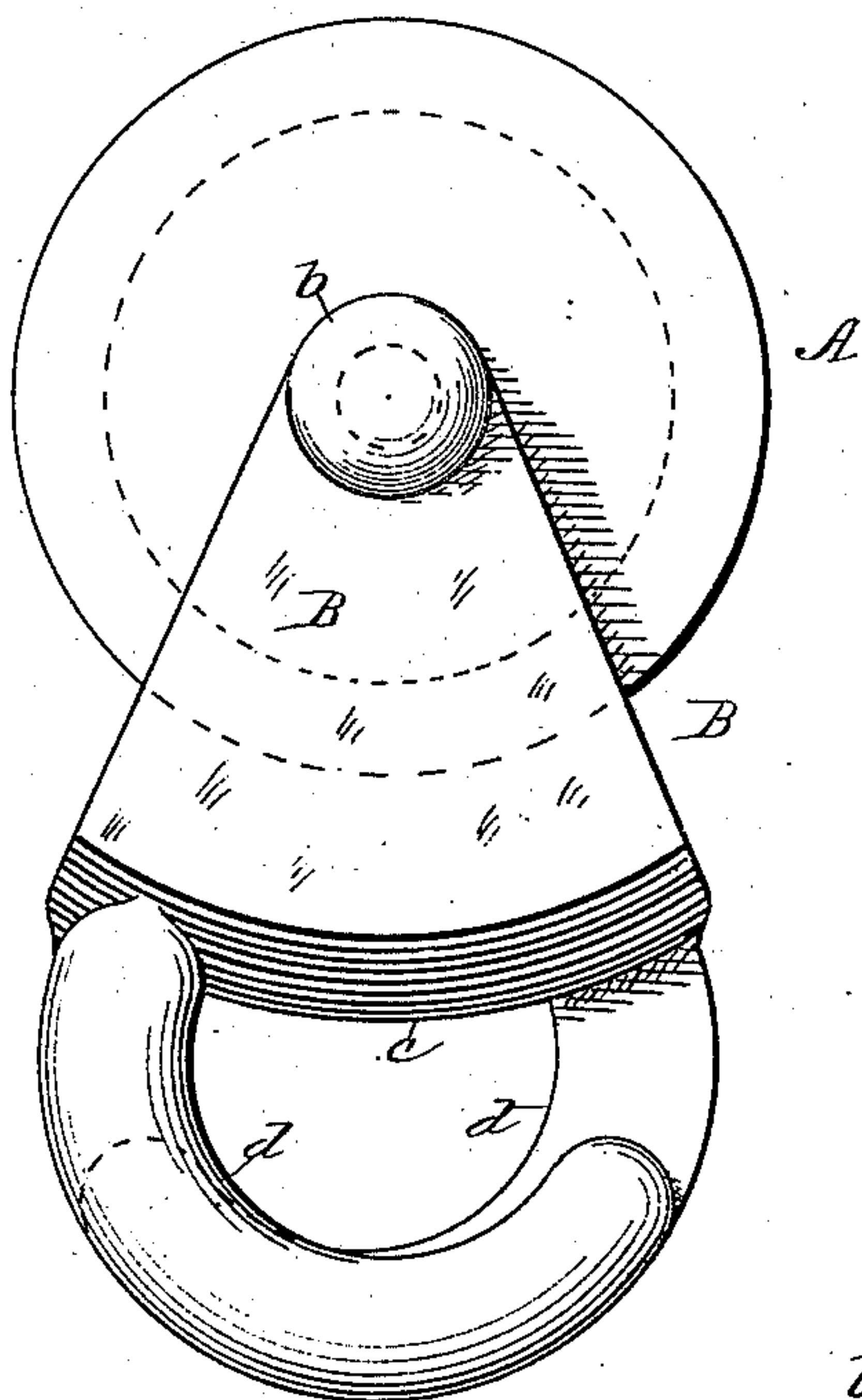
P. WERUM.

PULLEY.

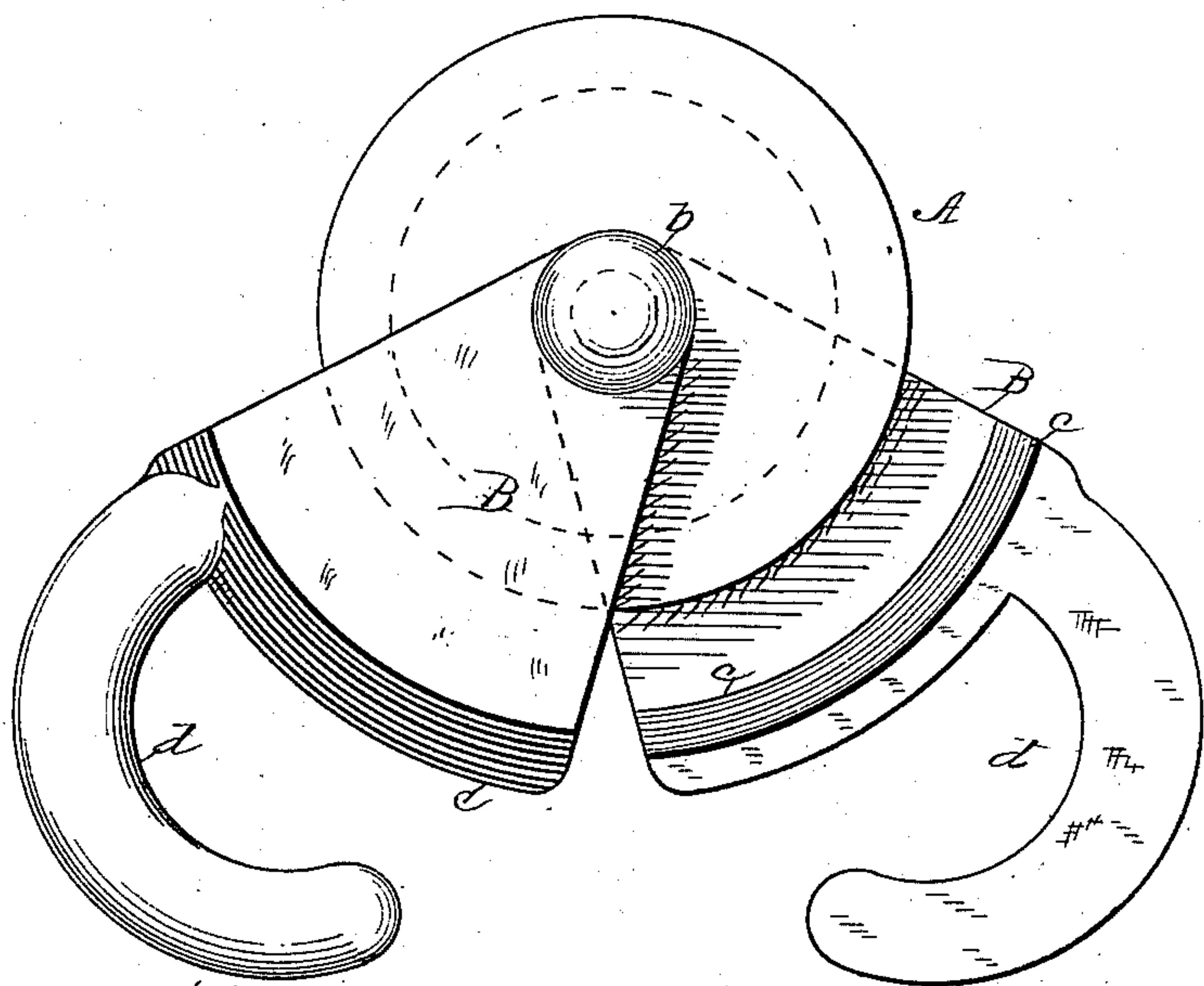
No. 312,682.

Patented Feb. 24, 1885.

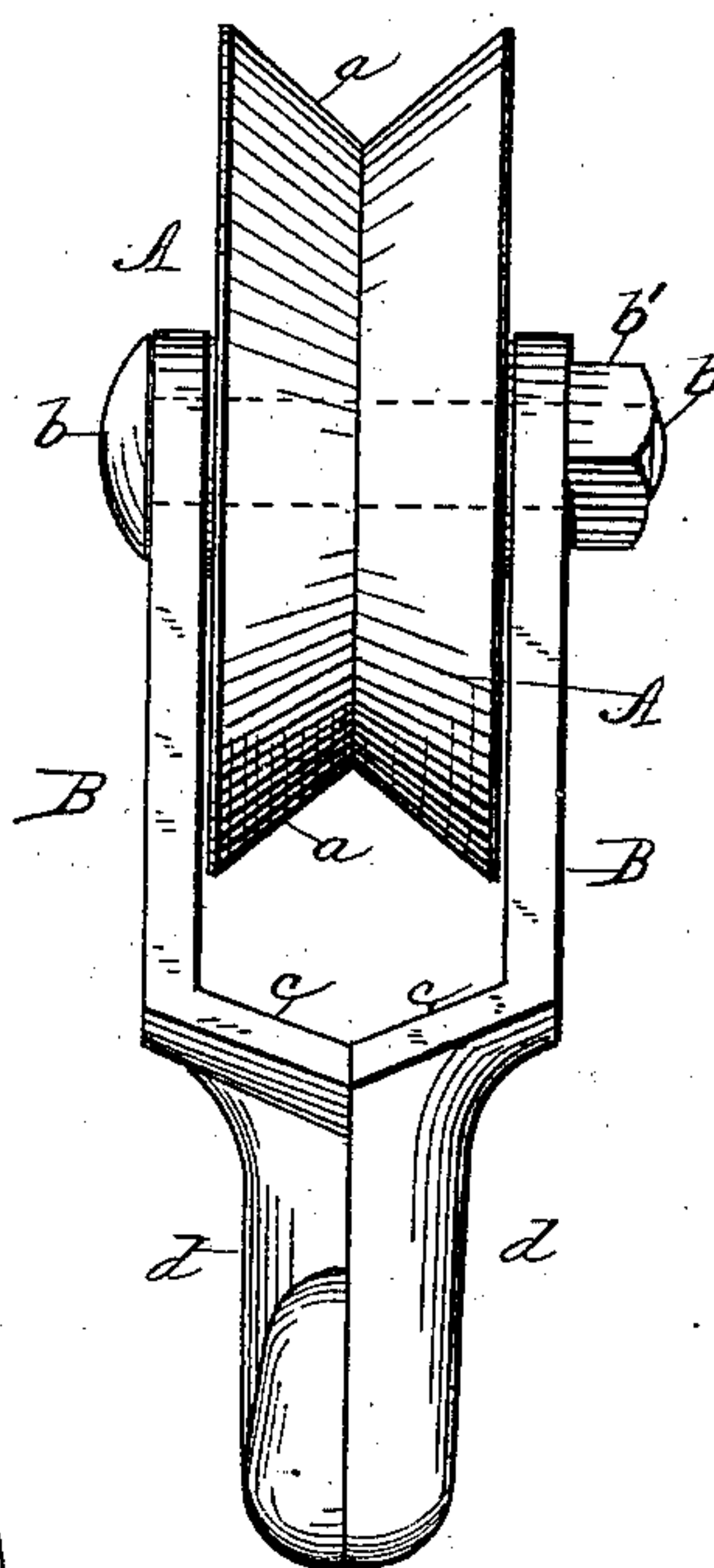
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



attest:  
*A. A. Bernhard*  
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Inventor:  
*P. Werum*  
*By his Attorney*  
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# UNITED STATES PATENT OFFICE.

PHILLIP WERUM, OF STRYKER, ASSIGNOR TO CHARLES ALLEN WERUM, OF  
SHERWOOD, OHIO.

## PULLEY.

SPECIFICATION forming part of Letters Patent No. 312,682, dated February 24, 1885.

Application filed December 15, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, PHILLIP WERUM, a citizen of the United States, residing at Stryker, in the county of Williams and State of Ohio, have invented certain new and useful Improvements in Pulleys; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in pulleys, and has for its object the provision of means whereby a pulley can be readily and quickly connected to or suspended from a wall, ceiling, or other place, and which shall be simple and durable in construction, efficient in operation, and cheap of manufacture; and to these ends the invention consists of a sheave of ordinary or preferred construction, having two cheek-plates pivoted to its axis, and adapted to embrace a portion of the outer surface thereof, said plates being each provided with a hook or curved extension, substantially as hereinafter more fully set forth, and particularly pointed out in the claims.

In the drawings, Figures 1 and 2 are side elevations of a pulley embodying my improvements, showing the cheek-plates in closed and opened positions, respectively; and Figs. 3 and 4 are an end and bottom view thereof, respectively, in a closed position.

Referring to the drawings, in which like letters of reference indicate like parts in all the figures, A designates a sheave having a groove, *a*, of any ordinary or preferred construction, and B B designate cheek-plates, preferably made quadrant-shaped or approximately so—that is to say, having a broad outer surface, and thence converging or tapering inward to a point where they are pivoted, as by a headed cross-bolt, *b*, and nut *b'*, which passes through said plates and sheave, as clearly shown. The said cheek-plates are of a length to extend sufficiently beyond the edge of the sheave to permit the rope or chain to pass freely over the sheave without contact with the plates, which are preferably curved at

their outer ends. Each of the plates is provided with flanges or rims *c*, which extend inwardly toward each other, and are of a width equal to one-half of the width of the sheave, said plates being further provided with hooks *d*, preferably made integral therewith. The said hooks *d* are also preferably made with their inner abutting surfaces beveled, as shown in Fig. 4, the extreme ends of the said hooks when closed extending considerably beyond the center of the sheave, thereby providing a secure and strong means for connecting or suspending the pulley from a wall, ceiling, or other place.

It will be observed that in order to attach the pulley to the desired object it is only necessary to separate the plates as shown in Fig. 3, and cause the hooks thereof to take into an aperture, hook, or other support provided for that purpose, and that when the plates are closed the arms thereof will bind or be held together by the friction of their meeting and tapering surfaces. It will also be observed that the hooks *d d* are arranged in a plane parallel with their movement when they are opened or closed, thus enabling them to be quickly and readily attached to and detached from their supporting means.

By the use of the quadrant-shaped plates I am enabled to produce a pulley which combines the necessary strength, together with lightness, and also effect a saving in metal.

The invention is particularly adapted for use in connection with a horse hay-fork, application for which I have filed of even date herewith, Serial No. 150,660; but it will be seen that the device is capable of application in other relations with equal advantages.

Modifications in the form and proportion of parts can be made without departing from the principle or sacrificing the advantages of my invention, the essential features of which will be readily understood from the foregoing description.

Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States, is—

1. In a pulley, the combination of a sheave, and two cheek-plates pivoted to the axis of the pulley, and provided with flanges and hooks

cast integral therewith, the hooks being arranged in the plane of their movement when opened and closed, substantially as described.

2. As a new article of manufacture, a pulley  
5 consisting of the following elements in combination, to wit: a sheave, two cheek-plates having flanges *c c* and hooks *d d* cast in one piece therewith, the hooks *d* being arranged in the plane of their movement and made tapering

on their meeting adjacent surfaces, and a pivotal bolt or pin, as set forth.

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

PHILLIP WERUM.

Witnesses:

W. B. K. FITZMILLER,  
J. J. FULLER.