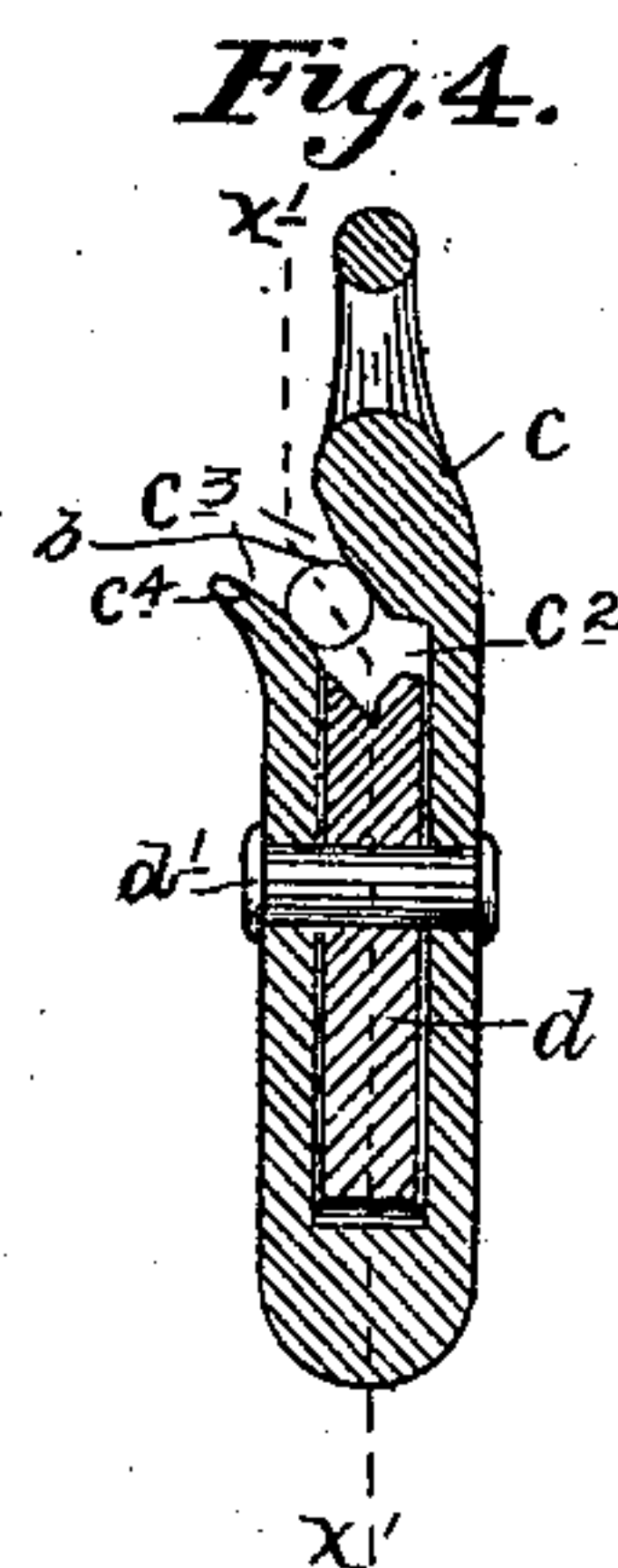
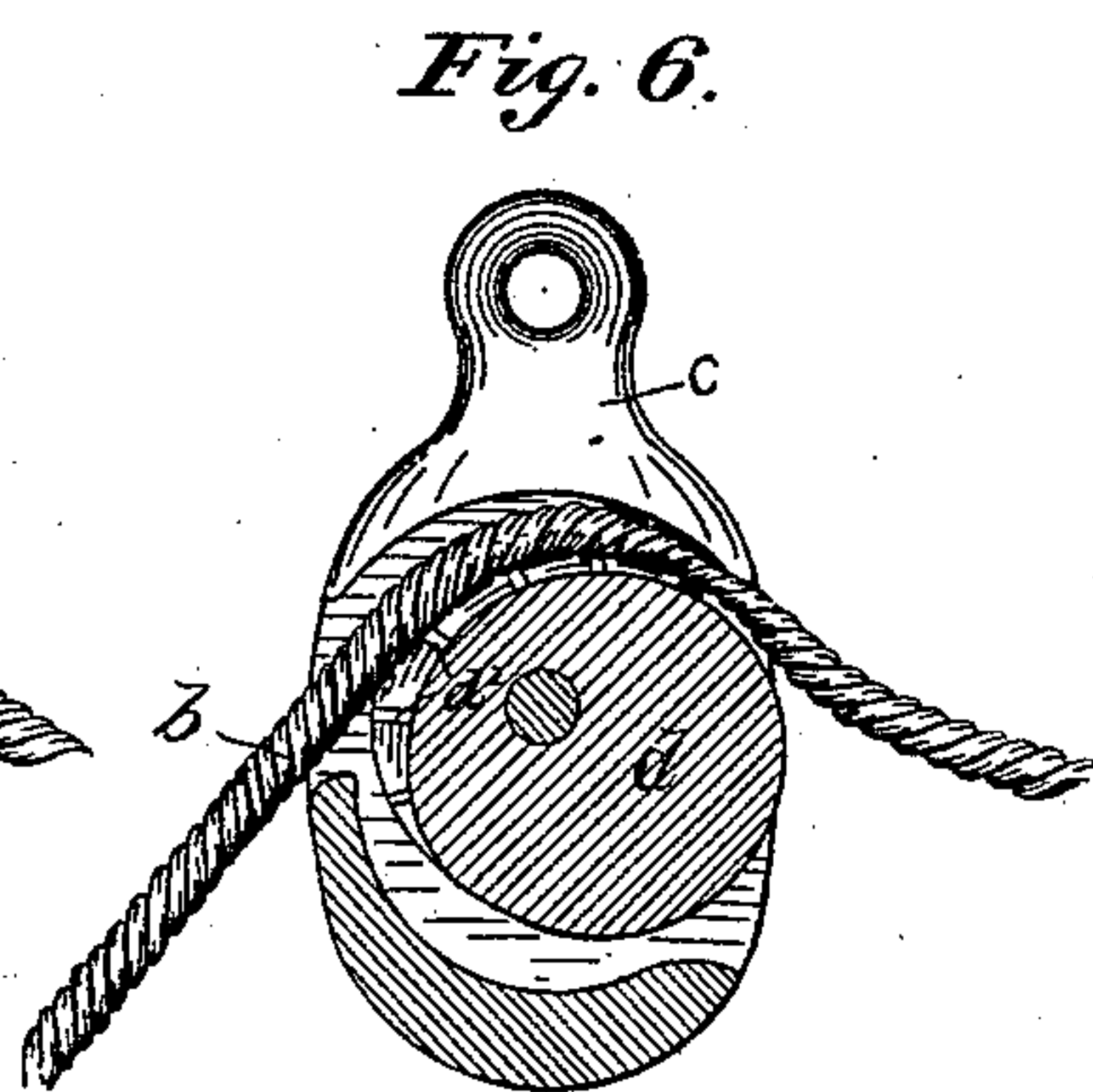
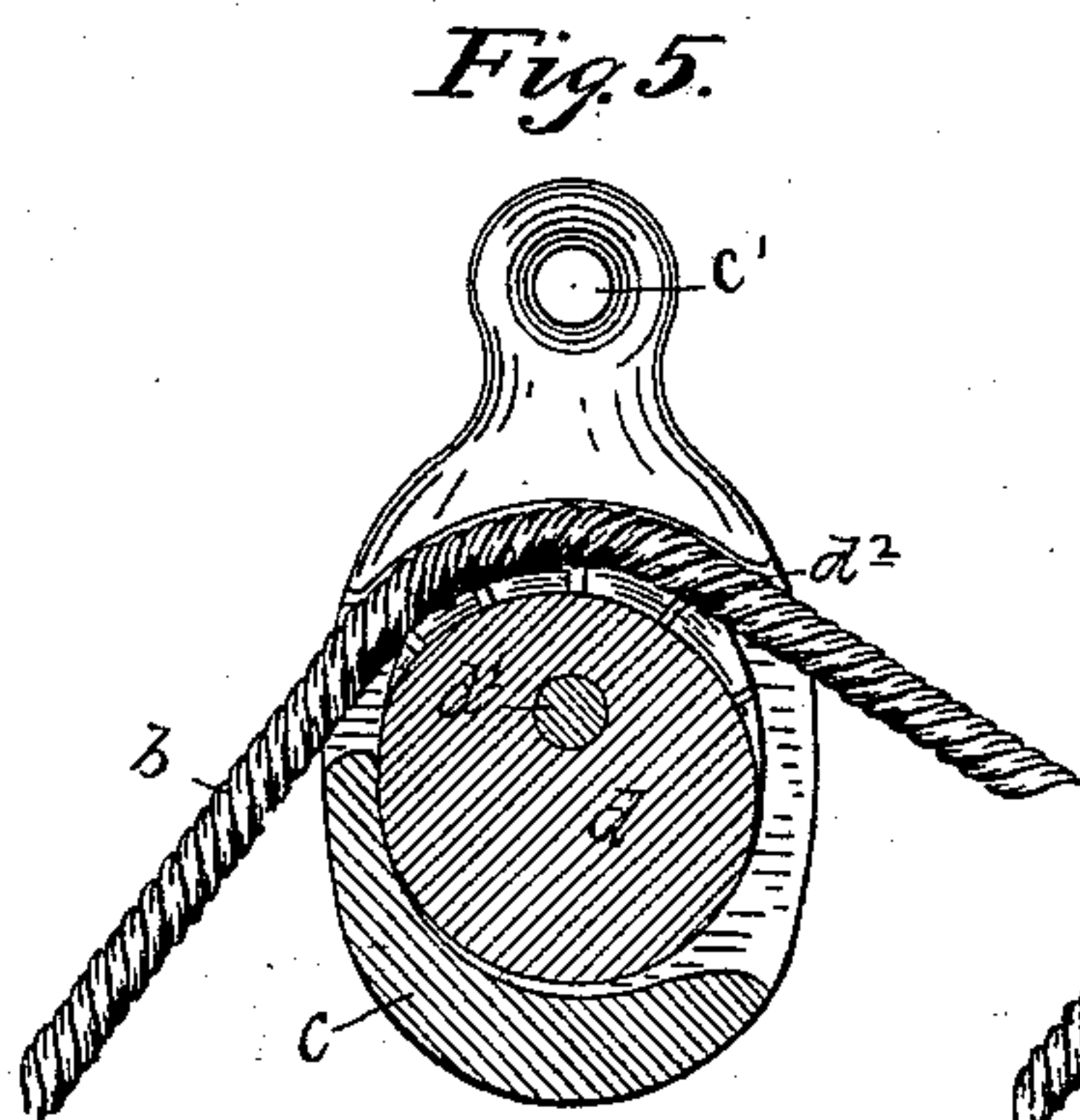
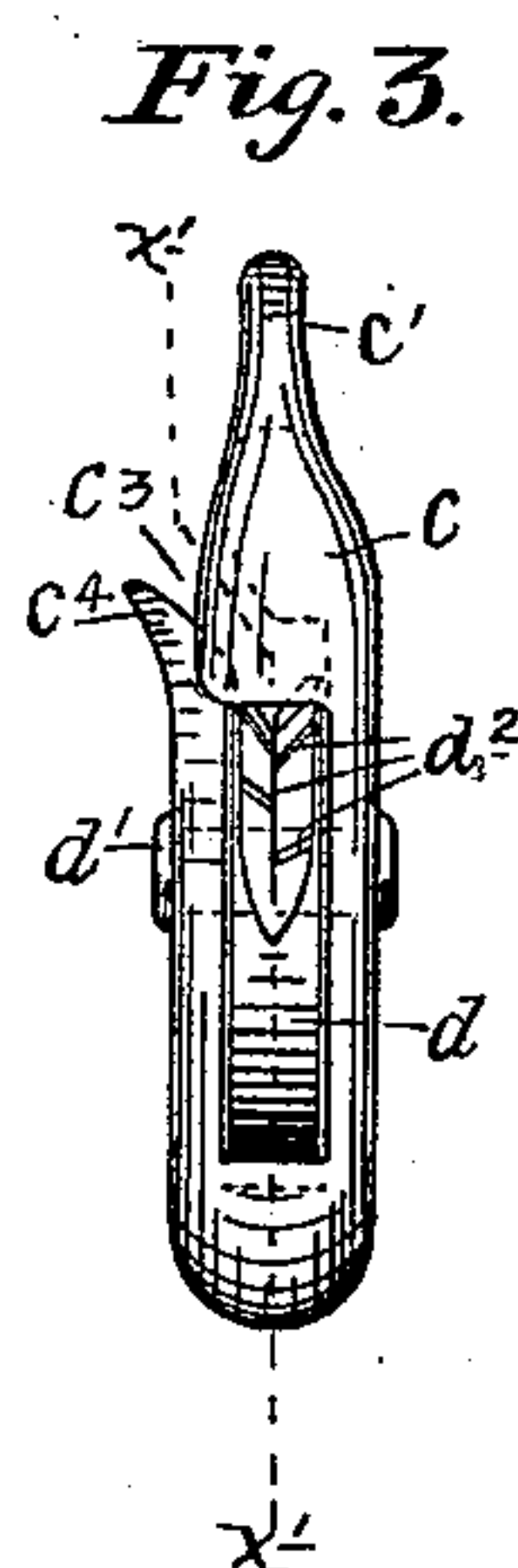
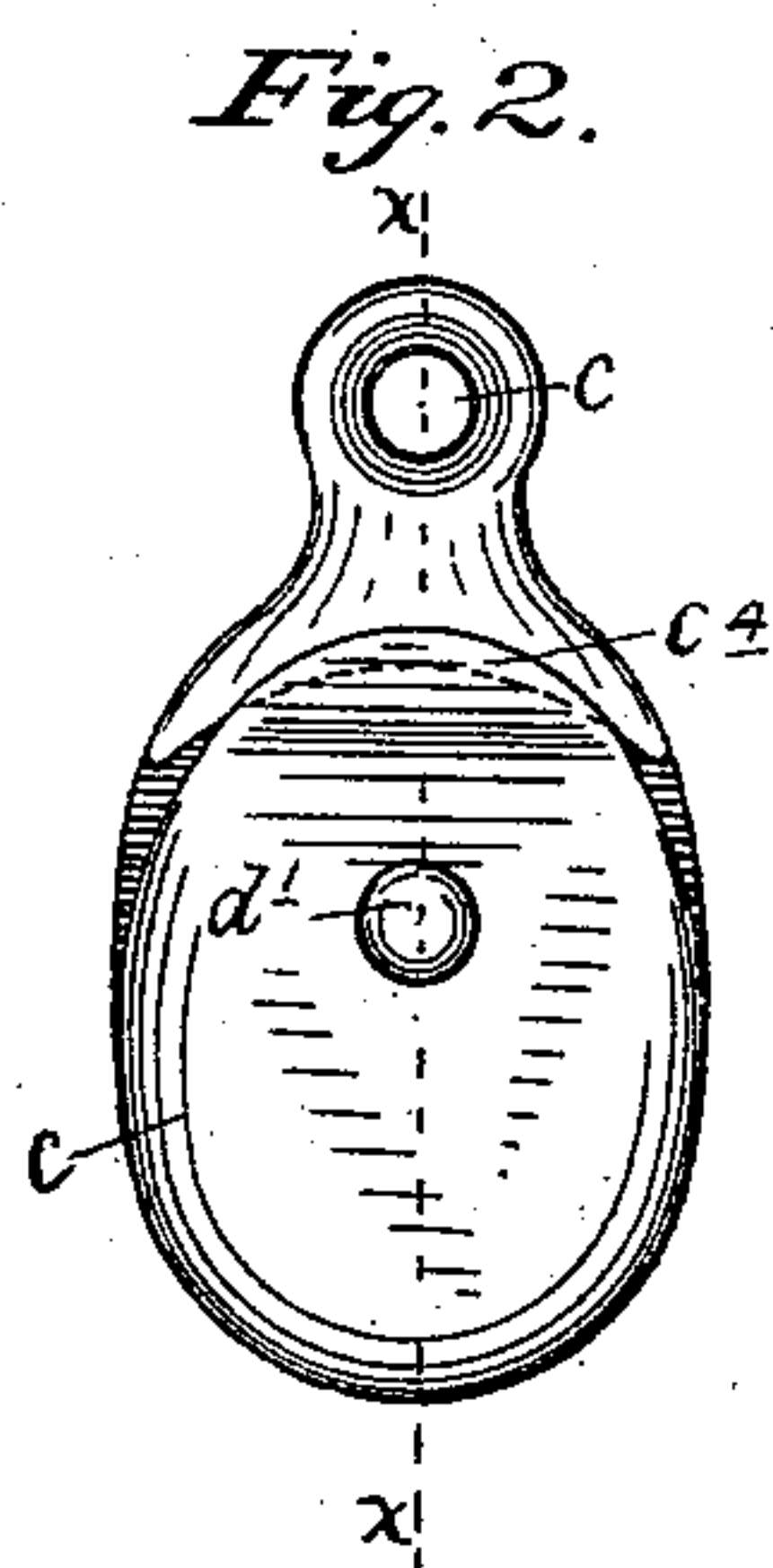
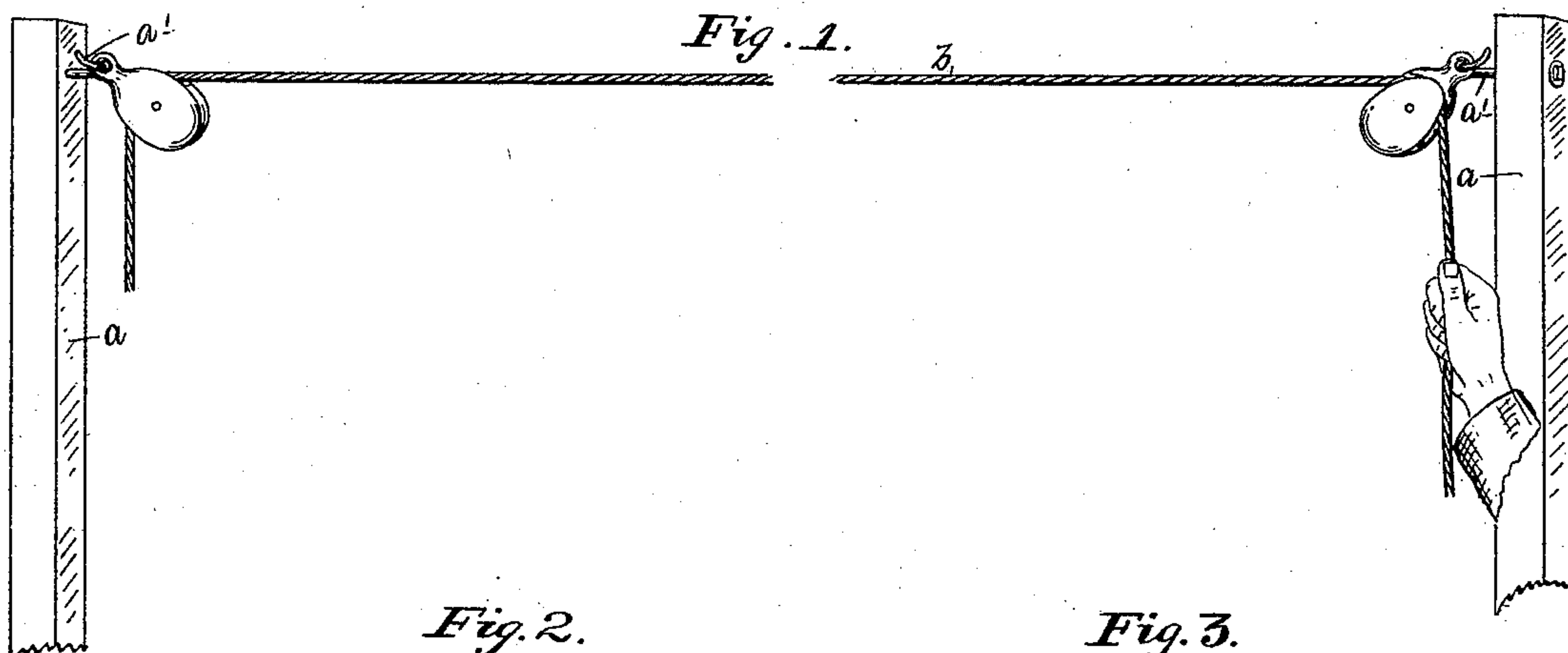


(No Model.)

L. HANSEN.
LINE HOLDER.

No. 540,736.

Patented June 11, 1895.



Witnesses:
E. F. Elmore
C. F. Kilgore

By his Attorney.

Inventor.
Louis Hansen
Jas. F. Williamson

UNITED STATES PATENT OFFICE.

LOUIS HANSEN, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF TO
HANS A. HANSEN, OF SAME PLACE.

LINE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 540,736, dated June 11, 1895.

Application filed February 18, 1895. Serial No. 538,812. (No model.)

To all whom it may concern:

Be it known that I, LOUIS HANSEN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Line-Holders; and I do hereby 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.

My invention has for its object to provide an improved form of line-holder, especially adapted for use in holding clothes-lines, electric-wires and other similar connections and permit the same to be readily removed or applied into working position on the holder.

To these ends the invention consists in the novel features of construction hereinafter fully described, and defined in the claim.

In the said drawings, like letters referring to like parts, Figure 1 is a perspective view showing a pair of holders as applied for removably holding a clothes-line. Fig. 2 is a front side elevation of one of the holders detached. Fig. 3 is an end view of the same. Fig. 4 is a vertical cross-section of the holder on the line xx of Fig. 2. Figs. 5 and 6 are views, partly in front elevation and partly in vertical section, on the line $x'x'$ of Figs. 3 and 4, the said Fig. 5 showing the eccentric sheave or cam in its line-releasing position, and Fig. 6 showing the same in its line clamping or holding position.

a represent a pair of posts between which the line b is assumed to be stretched. The said posts a , are shown as provided with hooks a' , for securing the holders to the posts in working position. Each holder is composed of a block or body c and an eccentric sheave or cam d . The block or body c , has an eye c' or other means, for removably connecting the holder to the hooks a' , or other support, when in working position, a seat c^2 for the eccentric sheave or cam d , a side slot or mouth c^3 for entering the line sidewise into working position, and a guide-lip or flange c^4 for co-operation with the stem or handle portion of the block body, to guide the line into the mouth or slot c^3 . The eccentric sheave or cam d is eccentrically pivoted to the body

portion c within the seat c^2 , by a pivot-bolt d' , or in any other suitable way. The body portion c is cut away to form the sheave-seat c^2 , and this seat is large enough at the back end to permit the sheave or cam d to be inserted into its working position, and is large enough at its forward end to permit the free outward passage of the line. The sheave or cam d is provided on its periphery with a V-shaped groove having therein transversely projecting lugs d^2 , which project only part way across the groove from the respective sides of the same, and are in staggered relation in respect to each other. These lugs d^2 , thus arranged, give to the cam or eccentric sheave a stronger bite on the line when the sheave or cam is in its clamping position.

When the holder is in its idle position, the sheave or cam d will appear as in Fig. 5; and the line b may be readily inserted, through the mouth or side slot c^3 , into its working position between the sheave and the overhanging shoulder of the sheave seat c^2 . When the eccentric sheave or cam d is turned into the position shown in Fig. 6, it will clamp the line against the overhanging shoulder of the seat c^2 and firmly hold the cord from being drawn through the holder under the working strain on the line. Hence, having regard to the right hand holder, shown in Fig. 1, for example, and supposing the left hand end of the line b to have been already secured, the line may be applied to the right hand holder and drawn toward the right until taut; and on then releasing the line or applying strain to the same, on its working or left hand side, the eccentric sheave or cam d will be turned into its clamping position as shown in Fig. 6, and will hold the lines properly stretched. Where both ends of the line b , are to be secured by the holders, as shown in Fig. 1, the holders will face in opposite directions; as this arrangement will permit both of the cam sheaves to tighten or assume their clamping position on the line, by movements toward each other, or in the line of the working strain on the line.

With this device, it is obvious that a clothes line or other similar flexible cable or connection may be securely and removably held in working position, and may be readily put into

or taken from the working position or applied to the working position, at will, without requiring the ordinary threading action through the sheave block, and without the removal of the holders.

It will, of course, be understood, that while this invention was especially designed for holding clothes lines, that it is capable of general application, for holding ropes, wires, or other forms of cables or flexible connections. The word "line" as used in this specification and claim is intended to be generic in sense and to cover and include all kinds of connections adapted to be clamped and held by the said holders.

This kind of a holder would be of special service, for holding wires, which are liable to stretch or become slack, for any reason, under

the service, as it affords a ready means of taking up the slack.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

The line holder, comprising the two-walled cam-block *c*, and the cam *d* eccentrically pivoted between the walls of said cam-block, one of the walls of said cam-block being slotted at *c*³, above the cam, and provided with the guide-lip or flange *c*⁴, substantially as and for the purpose set forth.

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

LOUIS HANSEN.

Witnesses:

HANS A. HANSEN,

JAS. F. WILLIAMSON.