

(No Model.)

G. S. & C. H. HALEY.  
SHEAVE CASE.

No. 282,454.

Patented July 31, 1883.

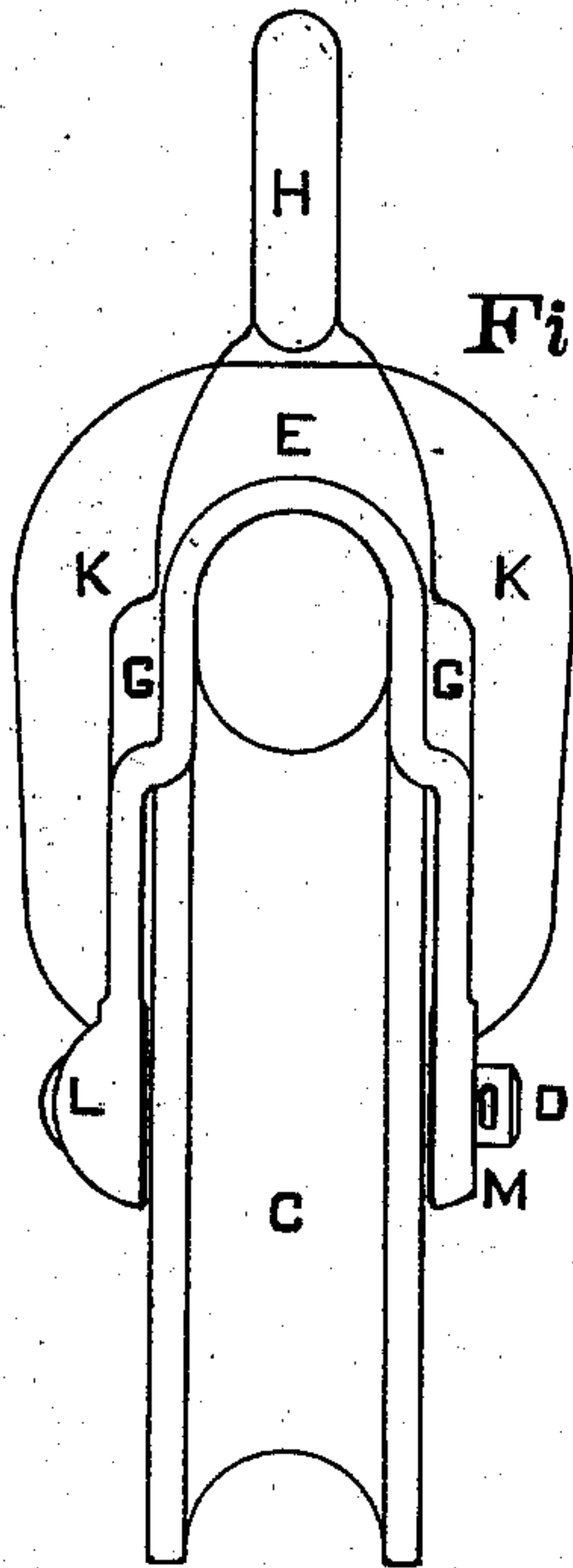


Fig. 3.

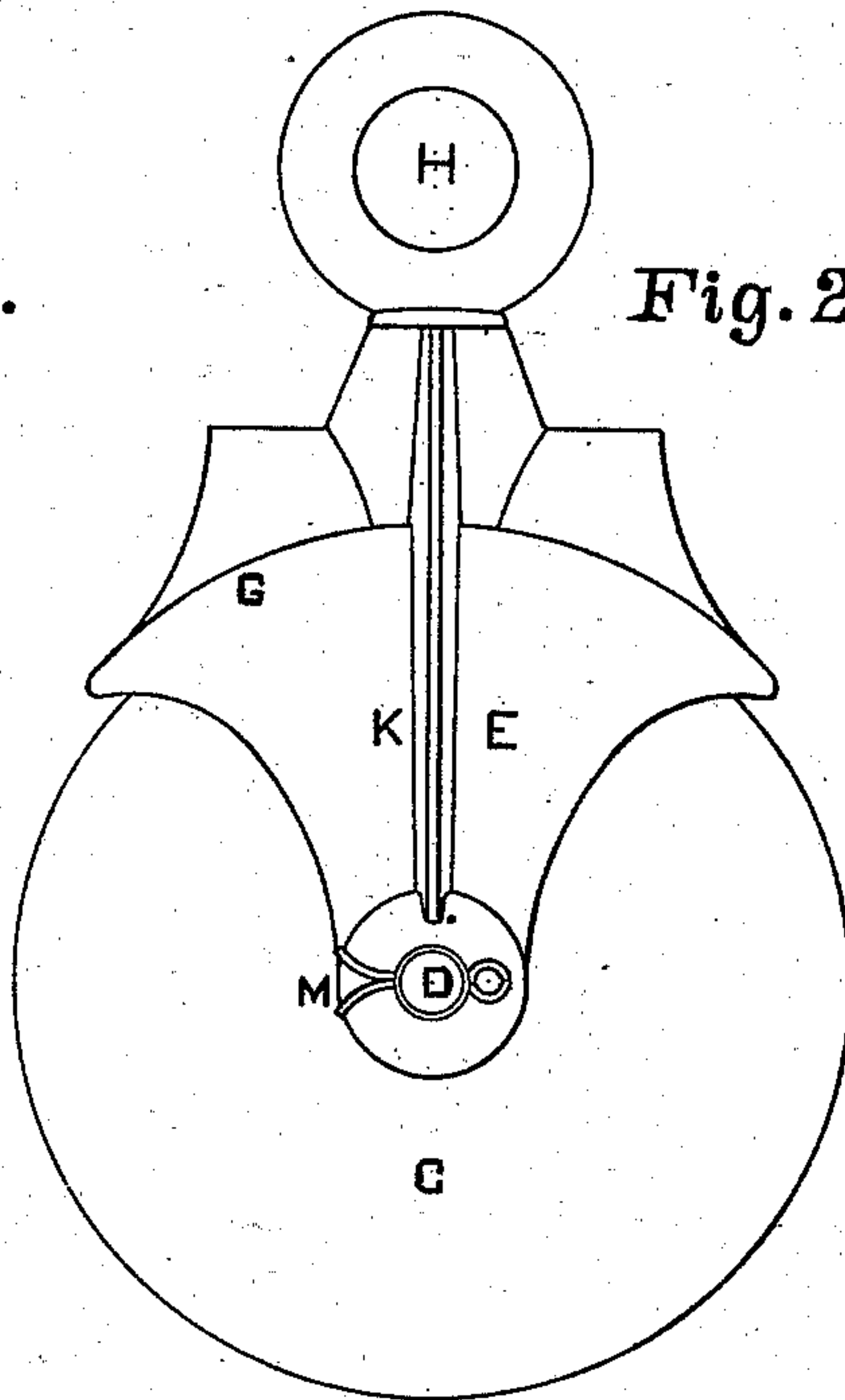


Fig. 2.

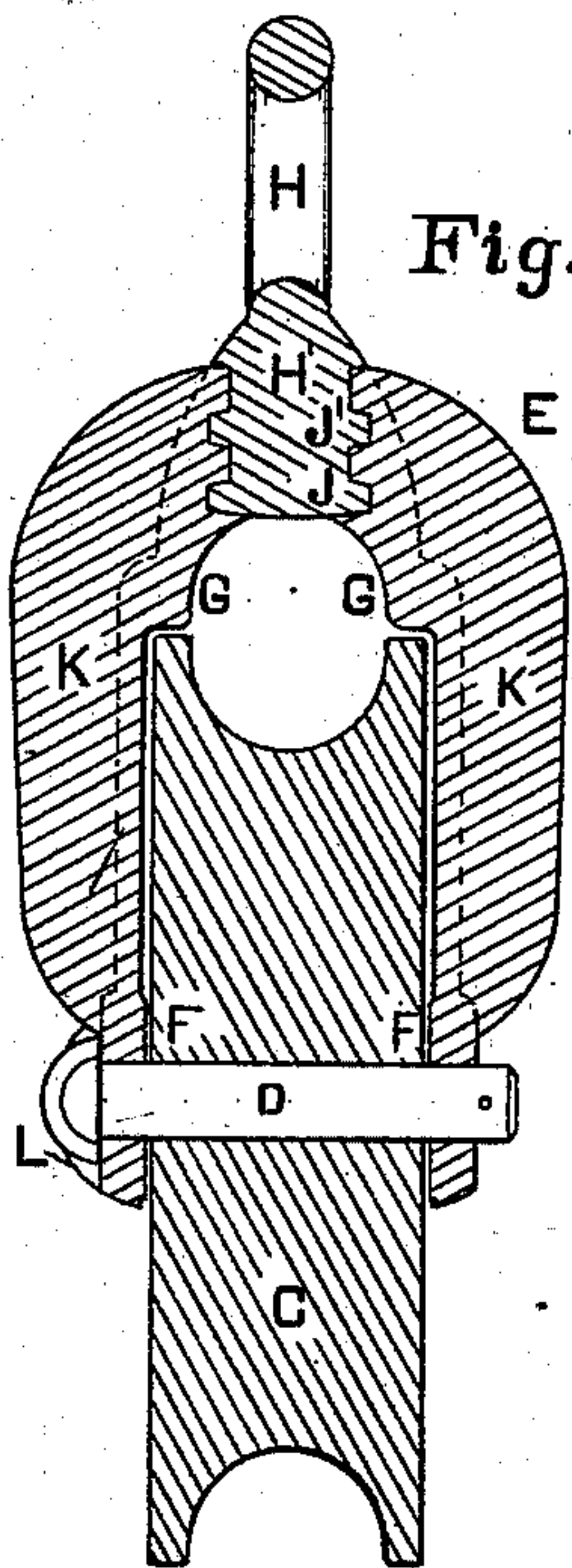


Fig. 4.

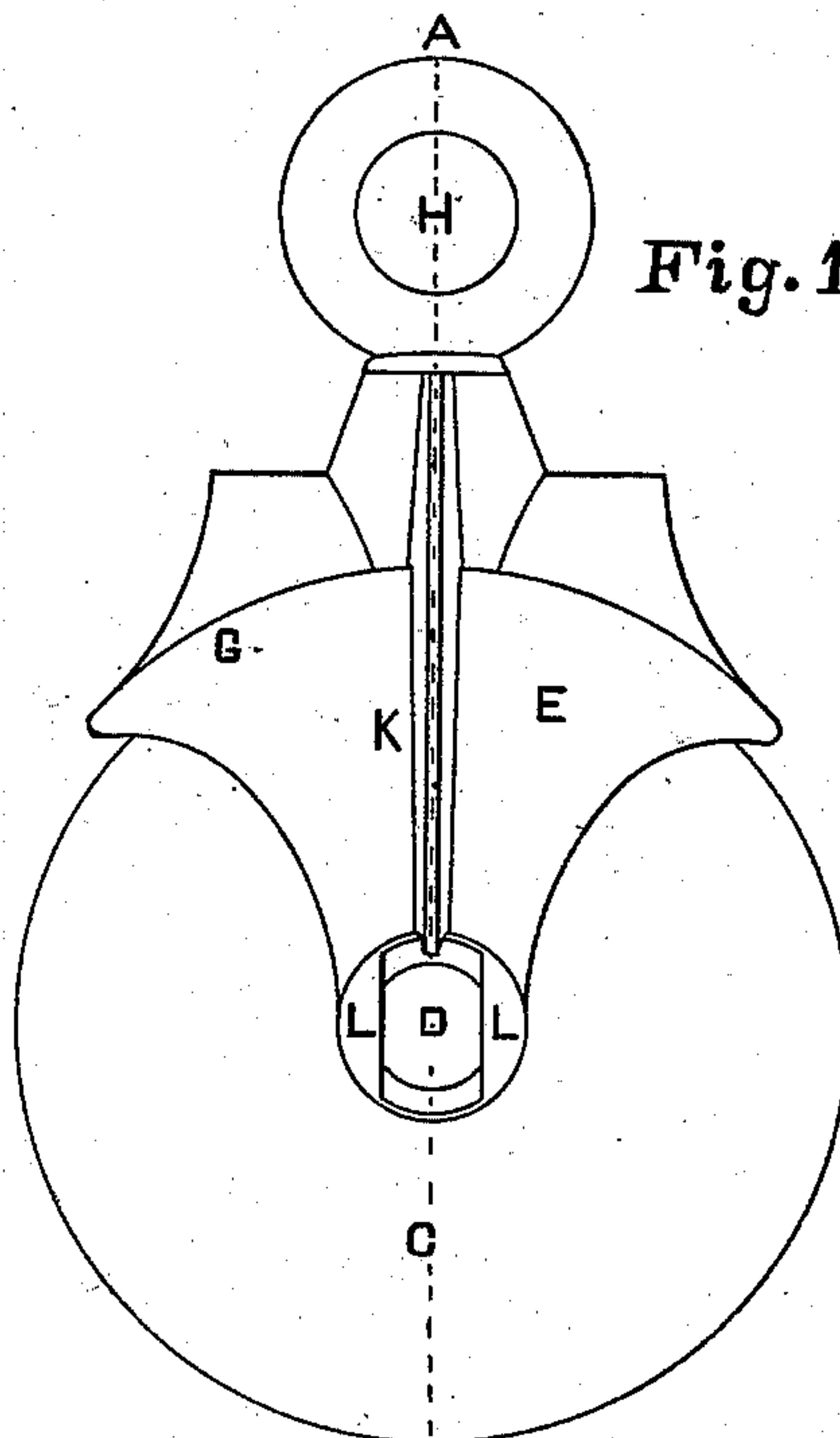


Fig. 1.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE S. HALEY AND CHARLES H. HALEY, OF BATAVIA, ILLINOIS,  
ASSIGNORS TO THE UNITED STATES WIND ENGINE AND PUMP COM-  
PANY, OF SAME PLACE.

## SHEAVE-CASE.

SPECIFICATION forming part of Letters Patent No. 282,454, dated July 31, 1883.

Application filed April 6, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE SIMOND HALEY and CHARLES HENRY HALEY, of Batavia, in the county of Kane and State of Illinois, have jointly invented a new and useful Improvement in Sheave-Cases, of which the following is a specification.

The invention relates to sheave-cases provided with a swivel-eye, whereby the case may be suspended or held in any position by means of a hook, rope, or other fastening.

The object of our invention is to secure superior strength and durability in the swivel, with a minimum amount of material, and to provide a reliable device, of simple construction, for preventing the pin upon which the sheave turns from turning in the case.

In the drawings, Figure 1 is an exterior view of one side of the case containing the sheave. Fig. 2 shows the other side of the case and sheave. Fig. 3 shows an exterior end view of the case and sheave. Fig. 4 shows a sectional end view in a plane cutting the case and sheave, as indicated by the dotted line A B, Fig. 1.

Similar letters refer to similar parts throughout the several views.

C is the sheave, preferably made of hard wood, which turns upon the pin D, held at each end in the case E. The case E is provided with small interior bosses, F F, to prevent the sheave from rubbing against the case, except immediately around the pin D. The case E is also provided with interior shoulders, G G, to prevent the rope from getting out of place.

At the top of the case E is a swivel-eye, H, whose stem H' turns inside the case, and is prevented from pulling out by the annular beads J J'. The bead J is at the lower end of the stem H', as is usual in sheave-cases with swivel-eyes. The bead J' is a little way above the bead J, but below the top of the sheave-case E. The parts H H' J J' are cast in one piece, and the case E is afterward run around them, so that the bead J' is embedded in the surrounding metal of the top of the case E, in which the stem H' turns. The bead J' must be at such distance below the top of the case and from the bead J as is required for strength in accordance with use. The outside ribs, K K, serve to strengthen the case.

On the outside of one face of the case E, and on opposite sides of the hole for the pin D, are two bosses, L L, whose inside faces are parallel and perpendicular to the face of the case. These two bosses serve to prevent the pin D from turning in the case, the head of the pin being made with two opposite and parallel faces, which fit between the bosses L L. The head of the pin D is prepared by a process called "slabbing"—that is, the ordinary round head of a pin is sheared off on opposite sides, so as to fit between the two bosses L L. The other end of the pin is provided with a colter, M, to keep it from backing out of place.

It has been customary to secure the pin D by riveting in place of using the colter M, and to keep the pin from turning in the case, the head of the pin and hole into which it fits have been made oblong; but this form of construction was found to be expensive and inconvenient in case it became necessary to remove the pin for the purpose of repairs.

Swivels for sheave-cases are usually made with one annular bead, J, at the lower end of the stem H'.

By providing the bead J', in addition to the bead J, we double the wearing-surfaces, and also greatly increase the strength of the swivel without increasing the amount of material.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The pin D, having a slabbed head, in combination with the sheave C and sheave-case E, provided with the two bosses L L, as and for the purpose herein shown and described.

2. In combination with a sheave-case, E, having a swivel-eye, H, whose stem H' is provided at its lower end with an annular bead, J, the additional annular bead J' also attached to the stem H', so as to be embedded in the top of the case above the bead J, as and for the purpose herein specified.

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Witnesses:

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