

(No Model.)

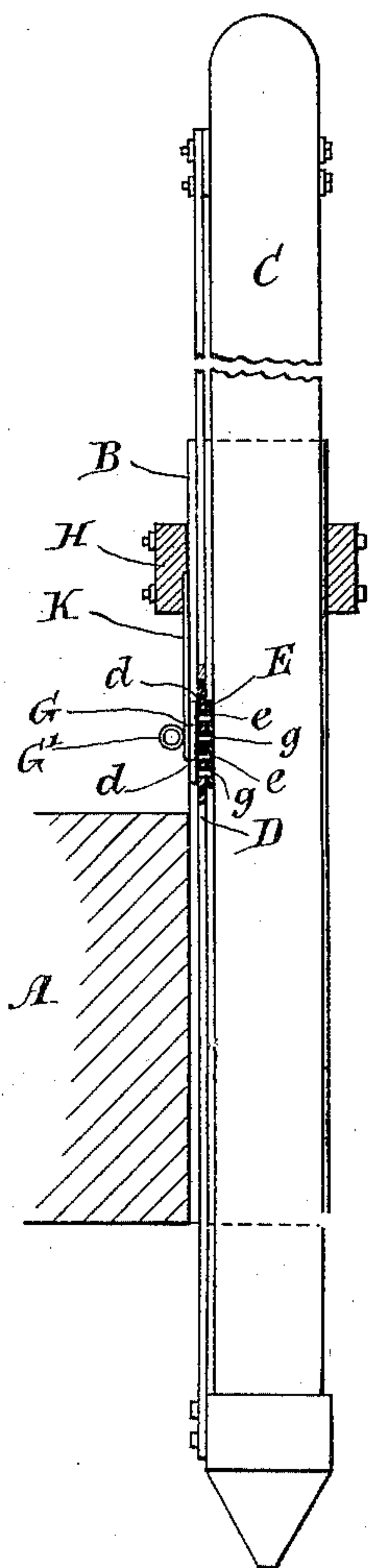
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APPARATUS FOR HOLDING DREDGES IN PLACE.

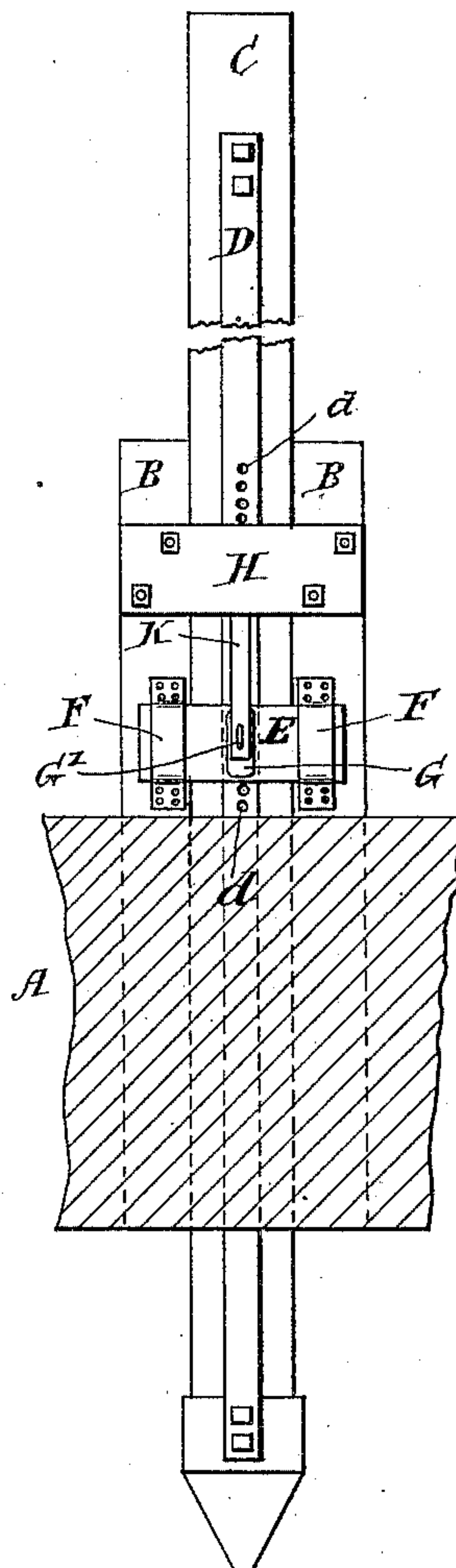
No. 445,675.

Patented Feb. 3, 1891.

— Fig. 1 —



— Fig. 2 —



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN KENNEDY, OF MONTREAL, CANADA.

APPARATUS FOR HOLDING DREDGES IN PLACE.

SPECIFICATION forming part of Letters Patent No. 445,675, dated February 3, 1891.

Application filed July 14, 1890. Serial No. 358,761. (No model.)

To all whom it may concern:

Be it known that I, JOHN KENNEDY, of the city of Montreal, in the District of Montreal and Province of Quebec, Canada, have in-
5 vented certain new and useful Improvements in Apparatus for Holding Dredges in Place; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to the means by which
10 spuds of dipper-dredges are held in place at any height relatively to the hulls, providing a device by which they may be held in position at the point desired.

The apparatus may be thus briefly de-
15 scribed: Upon the inner face of the spud I secure a longitudinal strap running nearly the whole length of the spud and having perforations formed in it for a certain propor-
20 tion of its length. Upon the face of the guide-posts is carried, preferably in sockets, so as to allow of a slight lateral movement, a horizontal bar having formed in it a vertical line of perforations corresponding to those in the strap. To lock the vertical strap and
25 horizontal bar together, and thus secure the spuds and hull together at the desired relative height, I employ a palm, on the inner face of which are projections corresponding in shape and position to those in the hori-
30 zontal bar and vertical strap. This palm is usually provided with a handle and may be connected with a cross-head attached to the guide-posts.

For full comprehension, however, of the
35 invention, reference must be had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a side view of the spud, &c., and Fig. 2 a front view of same from the hull.
40 Like symbols denote the same parts.

A is the hull of the dredge, B B the guide-posts, and C the spud.

D is the longitudinal strap, bolted to the inner face of the spud C and having formed in it perforations *d d* of the shape and at the
45 distance apart desired.

E is the horizontal bar, with openings *e* in it corresponding in shape and position to those *d* carried in sockets F, secured in the face of the guide-posts B, so as to allow of
50 slight lateral movement.

G is the palm or locking device, consisting of a plate with handle *G'* and projections *g g* formed on its inner face and fitting into the perforations *d* and *e*. This palm may be
55 loose, or, if desired, attached, as shown in the drawings, to a fixed cross-head H, secured to the guide-posts by a resilient strap K or other suitable connection.

If desired, the straps D D may be doubled
60 with corresponding perforations and the bar E pass between them, or the bar itself may be doubled and arranged on both sides of the strap and similarly perforated.

What I claim is as follows: 65

1. The combination, with the hull of a dredge, of the spud, a vertical strap or straps secured thereon and perforated, a horizontal bar carried on guide-posts and perforated, and a locking device securing strap and bar
70 together, as herein set forth.

2. The combination, with the hull of a dredge, of the spud carrying longitudinally a perforated strap or straps, bar or bars carried in sockets and perforated, and palm having
75 projections fitting into perforations in straps and bars, all as and for the purposes described.

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Witnesses:

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