(No Model.)

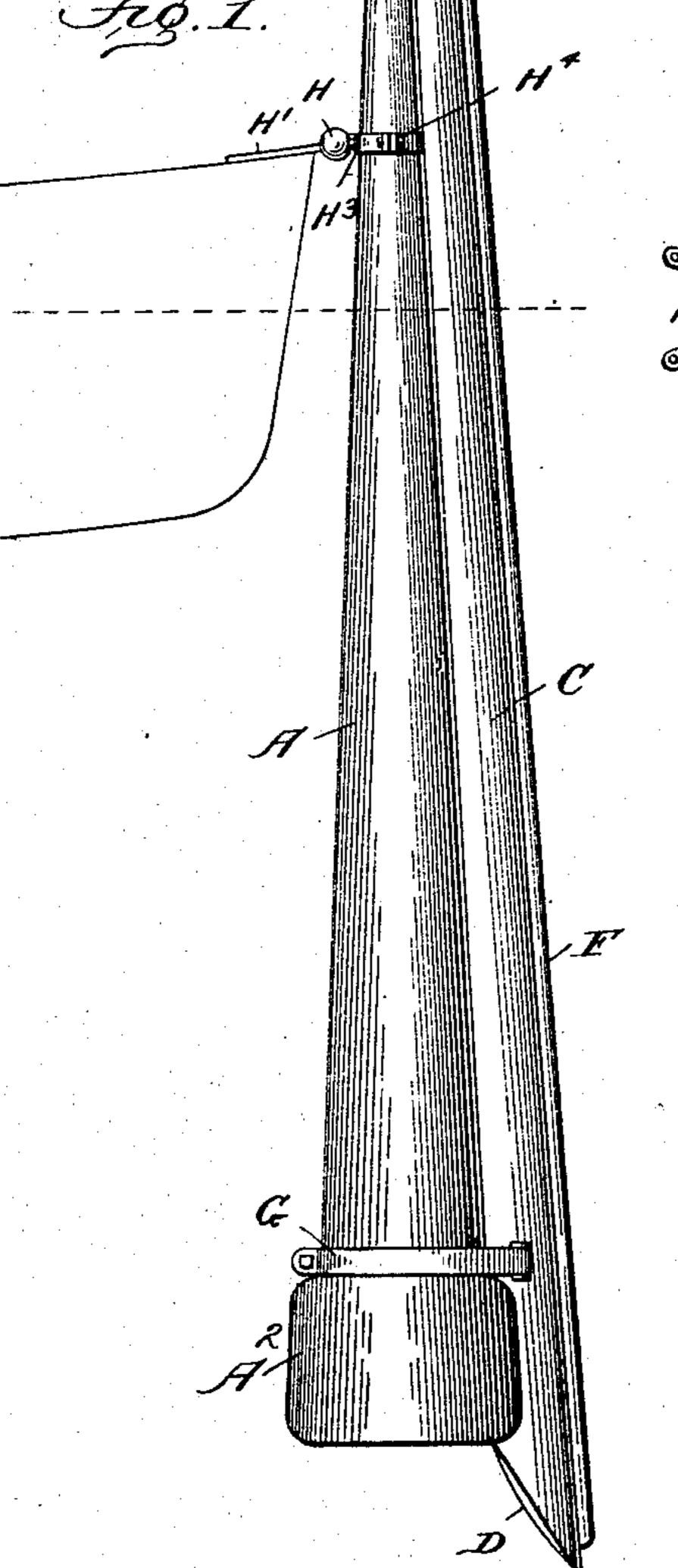
E. L. HUBBARD.

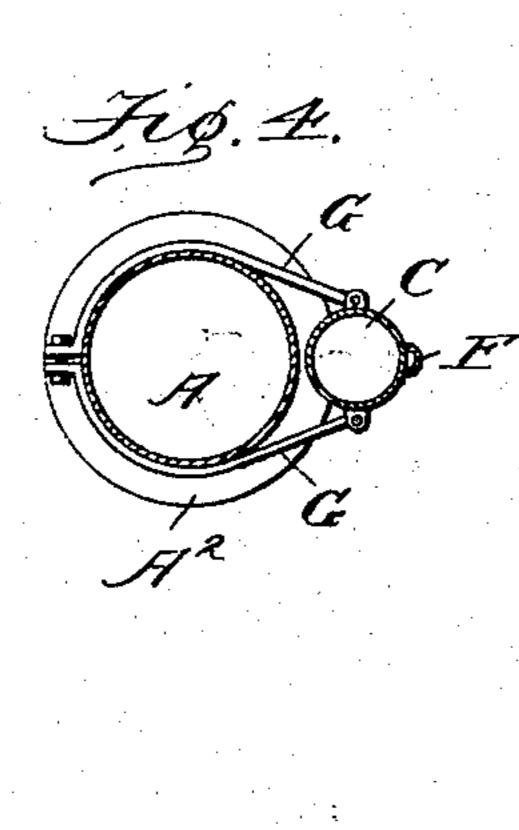
DEVICE FOR INSPECTING BOTTOMS OF STREAMS, &c.

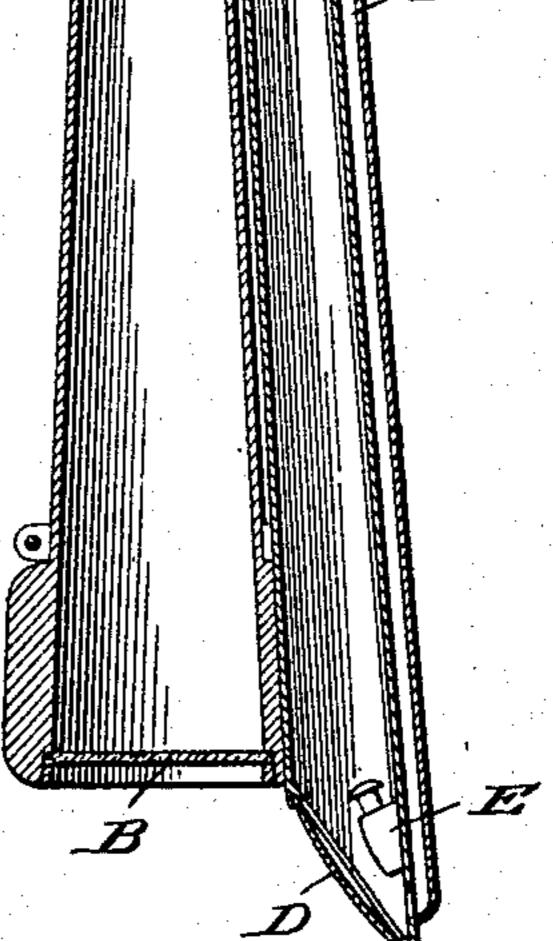
No. 572,803.

Patented Dec. 8, 1896.

7ig.3







WITNESSES:

Rolph Wormelle.

Edward L. Bubbard

BY C.S. M. Locey

ATTORNEYS

UNITED ST gets FATENT CHRICE EDWARD L. HUBBARD, OF BALTIMORE, MARYLAND. DEVICE FOR INSPECTING BOTTOMS OF STREAMS, &c. SPECIFICATION forming part of Letters Patent No. 572,803, dated December 8, 1896. Application filed May 1, 1896. Serial No. 589,859. (No model.) C, which projects some distance below the end To all whom it may concern: of the tube A, and in the end of said tube I Be it known that I, EDWARD L. HUBBARD, arrange a refracting-lens D, said lens being of Baltimore, in the State of Maryland, have arranged at an angle, as clearly shown, to 55 invented an Improved Device for Inspecting throw the light across the end of the tube A. 5 the Bottoms of Streams, &c., of which the fol-The light E is lowered into tube C down to lowing is a specification. the bottom, and in case an oil-lamp is em-This invention is an improved device to be ployed a tube F will be attached to the tube used for sighting or viewing the bottom of a C at a point near the end, and will supply the 60 stream or body of water. necessary air to support combustion. The object of the invention is to provide a The lamp and air tube are connected in portable device which can be carried about any suitable manner, and the lamp-tube is by an oysterman and used by him to locate attached to the main tube A by means of a by sight the oysters upon the bed or bottom. suitable clasp G. It is well known that oysters grow in clus-In practice this device is made about ten 15 ters, and very frequently the tongman spends or twelve feet in length, but if desired it can the greater portion of his time locating the be made longer and constructed with screwclusters or beds. Now the main object of my invention is to joint sections. The device is attached to the prow of the 70 avoid this searching in the dark and provide boat when in use, and in order to permit of 20 the tongman with a means for searching the a free and easy movement I employ a ballbottom with the eye; and the invention conand-socket connection between said boat and sists in certain details of construction and tube, the socket H being formed upon a plate novelties of combination and arrangement, H', attached to the boat, while the ball H2 is 75 all of which will be fully described hereinafformed upon a plate H³, which has a clamp-25 ter and pointed out in the claim. arm H4, adapted to embrace and secure the In the drawings forming a part of this tube, said arm being held by a bindingspecification, Figure 1 shows the invention in use. Fig. 2 is a detail view of the device; screw H⁴. By means of the clamping-arm the tube can 80 Fig. 3, a longitudinal sectional view. Fig. 4 be adjusted as desired, and by means of the 30 shows details of construction. ball-and-socket joint the tube can be swung In carrying out my invention I employ a up or down, right or left, as desired. Now sighting-tube A, made, preferably, of castfor the purpose of locating the oysters the iron, and wider at the bottom than at the top, tube is lowered and the eyes placed at the 85 said top in practice being only large enough sight-piece while the boat is slowly propelled. 35 to receive the sight-piece A'. The lower por-Wherever oysters are found a suitable buoy tion is made thicker, as shown at A2, for the or other device can be used to mark the spot purpose of increasing the weight at that end for later operation. in order to sink the tube, the bottom being In setting out oysters my invention is also 90 lightly closed by a plate of glass B. The of great use, as it enables the planter to see 40 tube thus constructed will sink into the water whether the oysters are piled or whether they a definite distance, and the bottom will rest are upon the proper bottom. a short distance above the bottom of the There are also many other uses and advanstream or body of water, say one or two feet. tages which will be apparent to every one 95 · By placing the eyes to the sight-piece the skilled in the art to which it pertains. 45 bottom can be clearly seen and everything Having thus described my invention, what upon the bottom, such as oysters, crabs, &c. I claim, and desire to secure by Letters Pat-For water which is ordinarily clear this device will be sufficient, but for muddy water ent, is— A metallic tube heavy at the bottom, and 100 and in cloudy weather it will be necessary to closed with plate-glass, a second tube C, at-

50 provide a light attachment, and this I accomplish by the employment of a second tube 572,803

In testimony whereof I affix my signature

tached to the said main tube A one side thereof

in the presence of two witnesses. EDWARD L. HUBBARD.

Witnesses: EMMA NEUWILLER, CARLISLE L. HUBBARD.

extending below the said main tube, a glass plate situated in the lower, inclined end of the said tube C, a lamp E situated in the bottom of said tube C, an air-tube F for supply-5 ing air to the said lamp, means for attaching said device to the bow of a boat or other vessel, substantially as set forth.