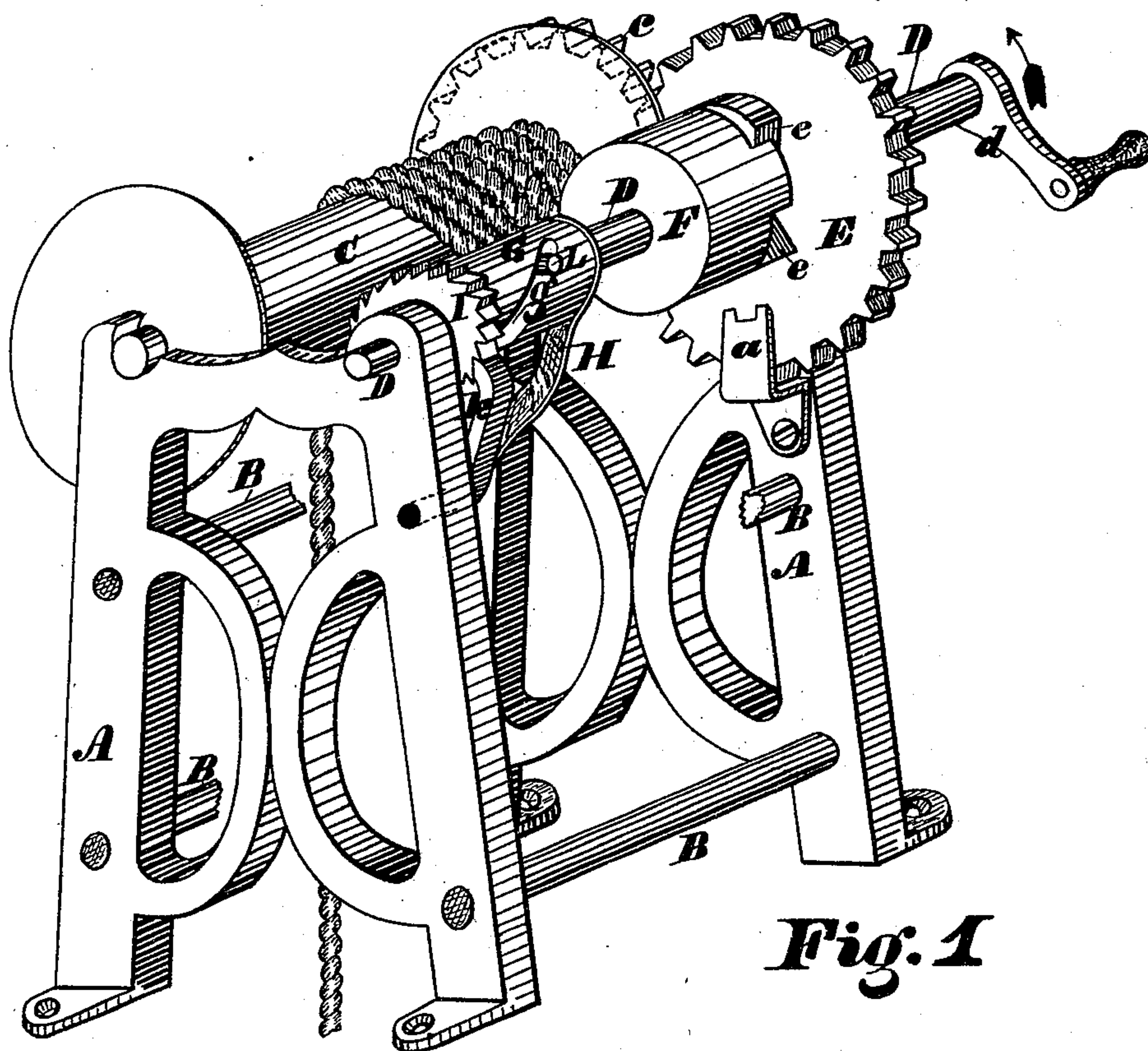


G. W. SLOAN & E. GETSINGER.

## OYSTER DREDGE APPARATUS.

No. 177,022.

Patented May 2, 1876.



**Fig. 1**

Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE W. SLOAN AND ELWOOD GETSINGER, OF DIVIDING CREEK, N. J.

## IMPROVEMENT IN OYSTER-DREDGE APPARATUS.

Specification forming part of Letters Patent No. **177,022**, dated May 2, 1876; application filed February 1, 1876.

*To all whom it may concern:*

Be it known that we, GEORGE W. SLOAN and ELWOOD GETSINGER, of Dividing Creek, in the county of Cumberland and State of New Jersey, have invented certain new and useful Improvements in Safe-Winding Oyster-Dredge Apparatus; and we 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective of our invention.

The object of our invention is to provide means for preventing the sudden and dangerous recoil of the crank-arm in oyster-dredge winders, due to the line meeting a "fast."

Our invention consists, essentially, in the peculiar construction and combination of parts hereinafter described, whereby when a fast is met the crank-shaft will slide longitudinally, releasing its clutch from engagement with that of the driving-wheel, and thus prevent the recoil above mentioned.

Referring to the accompanying drawing, A A designate arbors or standards, designed to be fastened to the deck of the vessel, being held at their relative positions by cross-bars or rounds B B. C is the drum, sustained on the standards A, and provided with a fast pinion, *c*. D is the crank-shaft, having a handle or winch, *d*. E is a spur or driving wheel, loose on the shaft D, and prevented from moving away from the adjacent standard A by a keeper, *a*. F is a clutch, fast on the shaft D, and arranged to mesh or engage with the clutch *e* on the spur-wheel E. G is a sleeve, loosely encircling the shaft D, and held in contact with its adjacent standard A by a bracket, H, through which said shaft passes. The end of this sleeve is made fast to or formed with a ratchet, I, with which a gravity-pawl, *k*, engages. L is a pin, made fast in the

shaft D, and passing through a beveled or spiral slot, *g*, in the sleeve G.

The operation is as follows: When the handle *d* is turned to the right, in the direction of the arrow, the line will be wound upon the drum C, the clutches *e* and F then engaging, the wheels E and *c* gearing, and the shaft D and sleeve G moving with said wheel E. Should a fast be met, the sudden recoil of the handle *d* will be prevented, as the strain, falling upon the pin L, will cause it to move backwardly through the slot *g*, thus sliding the shaft D longitudinally, and moving the clutch F away from the clutch *e*. The spur-wheel E will then be free to move loosely on the shaft D, while the latter can move no farther backwardly, owing to the engagement of the pawl *k* with the ratchet I.

What we claim as our invention is—

1. In an oyster-dredge winder, the crank-shaft D, arranged to slide lengthwise when a fast is met, for the purpose set forth.

2. In combination with clutch F, gearing E *e*, and windlass C, the sliding shaft D, having a pin, L, and the loose encircling sleeve G, having the spiral or bevel slot *g*, substantially as and for the purpose set forth.

3. In combination with the shaft D, having pin L, and sleeve G, having slot *g*, the bracket H, ratchet I, and pawl *k*, substantially as shown and described.

4. The combination of standards A, drum C, pinion *c*, crank-shaft D, gear-wheel E, clutch F *e*, sleeve G, bracket H, ratchet I, pawl *k*, and pin L, the several parts being constructed and combined substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands this 26th day of January, 1876.

GEORGE W. SLOAN.  
ELWOOD GETSINGER.

Witnesses:

JOSEPH BUTCHER,  
LEVI WILFONG.