

(79.)

GEORGE DUERRE.

Improvement in Attachment for Hoisting Gears.

No. 122,712.

Fig: 1.

Patented Jan. 16, 1872.

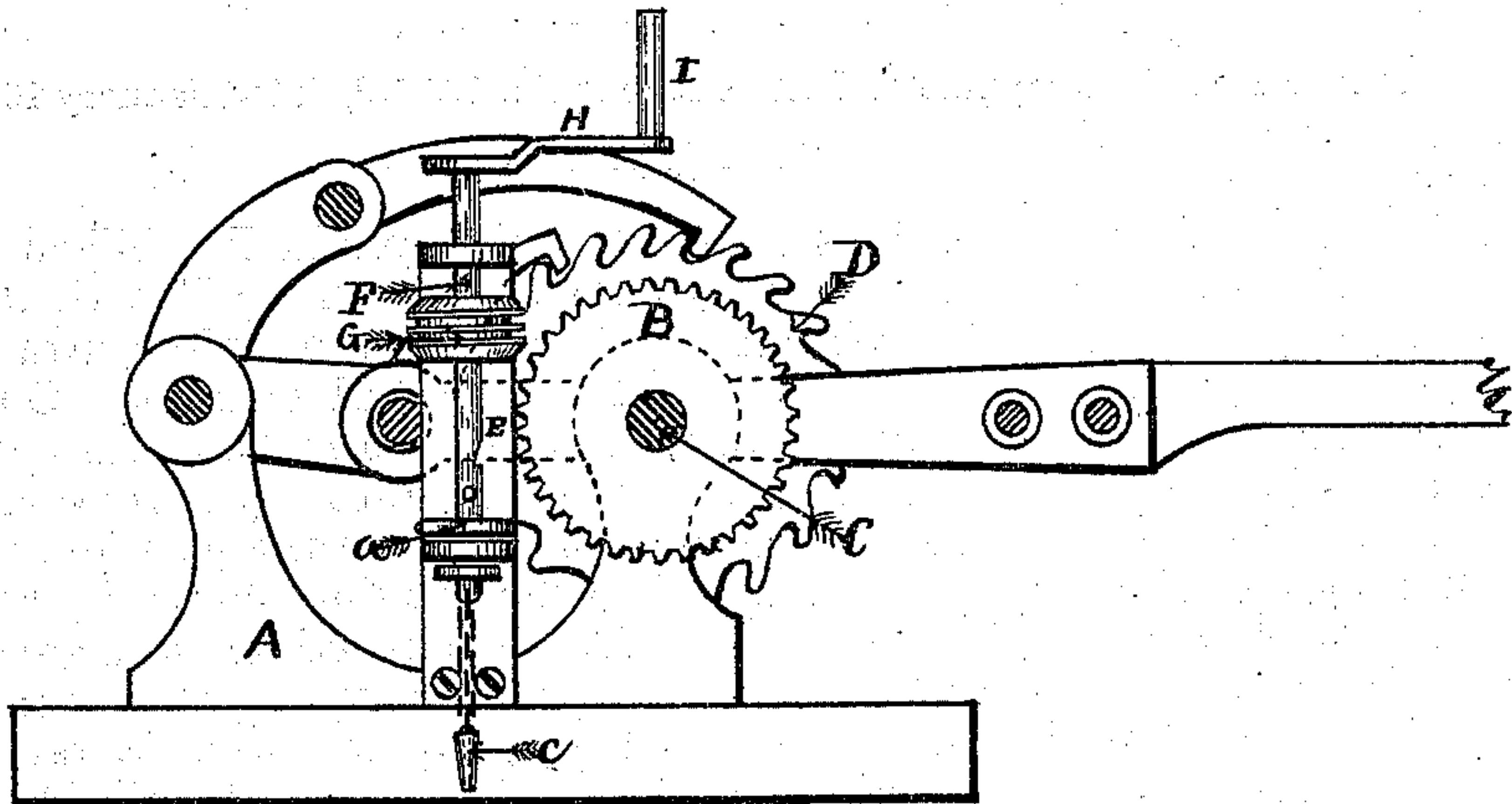
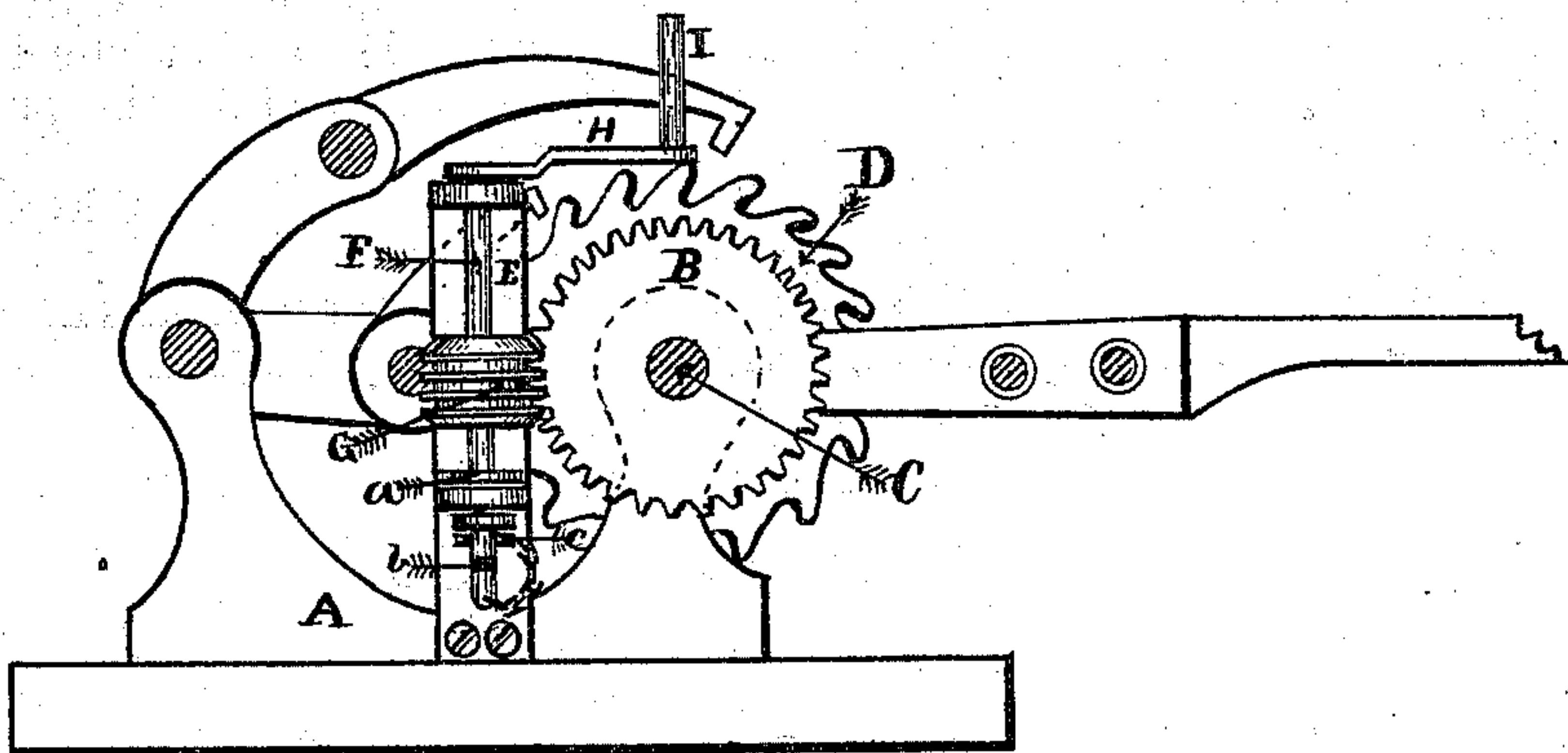


Fig: 2.



Witnesses.

Franklin Barnett
Richard Gerner.

Inventor.

George Duere
Per Henry Gerner
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE DUERRE, OF WILLIAMSBURG, NEW YORK.

IMPROVEMENT IN ATACHMENTS FOR HOISTING-GEARS.

Specification forming part of Letters Patent No. 122,712, dated January 16, 1872.

Specification describing an Improved Attachment for Hoisting-Gears, invented by GEORGE DUERRE, of the city of Williamsburg, State of New York.

The object of my invention is to attach to a hoisting-gear a suitable device for lowering heavy and bulky goods slowly and carefully without risking either life and injury to limb or to the goods themselves.

In order to describe my invention more fully I will refer to the accompanying drawing.

Figure I is a side view of a hoisting-gear with my improvement, showing the position of the same when in the act of hoisting. Fig. II is a side view of the same, showing my improvement in a position when lowering goods.

A represents the frame of a hoisting-gear, for which Letters Patent No. 120,951 were granted to me by the United States on the fourteenth day of November, one thousand eight hundred and seventy-one. B is a cog-wheel attached to the axle C of the ratchet-wheel D. To the frame A is securely attached another frame, E, having a spindle, F, attached thereto. Said spindle F can be moved up and down at any required distance, and be held in either place by the spring *a* when it is in position, as shown in Fig. I. The spring *a* holds it there by pressing against the groove

b in the spindle F. When in its proper position, as shown in Fig. II, it is held there by the spring *a* and pin *c*, attached to the spindle F by a small chain, *d*. On the spindle F is placed a worm, G, a crank, H, and a handle, I.

To operate my invention the spindle F is lowered from the position, as shown in Fig. I, to the position shown in Fig. II, the worm G fitting the teeth of the cog-wheel B. To guard against heavy weights turning the cog-wheel B rapidly and thereby raising the spindle F out of its place, the pin C is run through the spindle F under the washer *e*. The worm G is then turned gradually by aid of the crank H, which allows the cog-wheel B to turn slowly, and thereby allowing the lifted goods to arrive at their destination slowly and safely, which would otherwise not be the case.

Having thus described my invention, I desire to claim—

The spindle F, worm G, cog-wheel B, crank H, spring *a*, pin *c*, and frame E, in combination with the ratchet-wheel D and axle C, substantially as and for the purpose hereinbefore set forth.

GEORGE DUERRE.

Witnesses:

RICHARD GERNER,
A. C. CRONDAL.

(79)