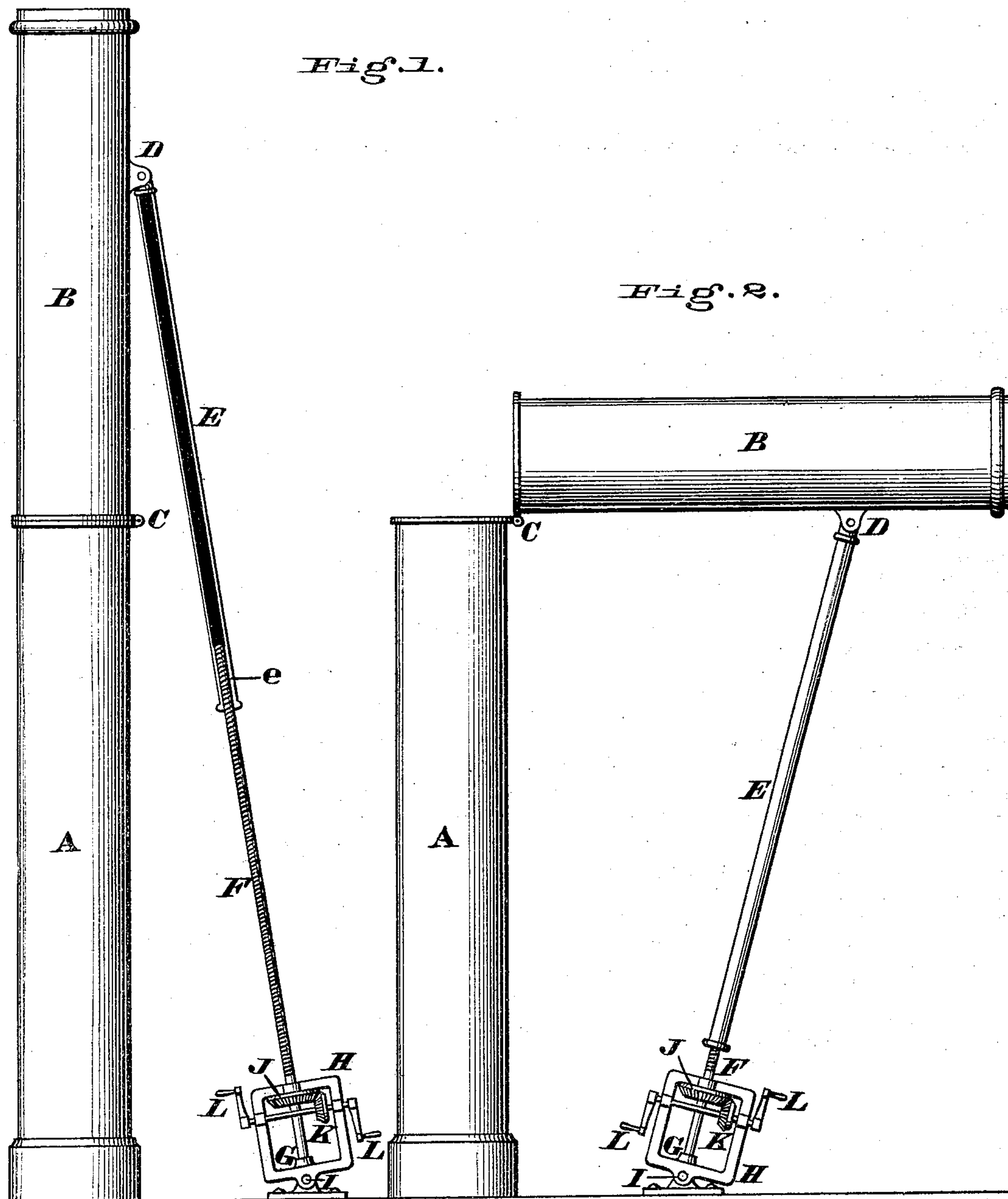


J. CHRISTY.

Means for Operating Steamboat Chimneys.

No. 136,414.

Patented March 4, 1873.



Attest.

Jas. H. Gayman

H. L. Knight

John Christy
By Knight Bros.
Att'ys.

UNITED STATES PATENT OFFICE.

JOHN CHRISTY, OF CINCINNATI, OHIO.

IMPROVEMENT IN MEANS OF OPERATING STEAMBOAT-CHIMNEYS.

Specification forming part of Letters Patent No. 136,414, dated March 4, 1873.

To all whom it may concern:

Be it known that I, JOHN CHRISTY, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Device for Lowering and Raising Steamboat-Chimneys, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to a device for lowering and elevating, at will, the movable section or upper hinged member of a steamboat-chimney, my said device being cheap, simple, and easily operated by one or two men.

General Description.

Figure 1 is an elevation of a steamboat-chimney provided with my apparatus, the hinged member being in its normal or elevated position, and the screw-threaded tube of the apparatus shown in section. Fig. 2 is an elevation, showing the position the various parts assume when the hinged section is lowered.

A represents the lower or principal portion of the chimney. B is the upper or movable portion, secured by customary hinge C to the said portion A. The movable section B has a lug, D, to which is hinged or pivoted the upper extremity of a tube, E, which may be composed of a piece of gas-pipe. The lower end of the tube E contains a nut or screw-

threaded throat, *e*, to receive a screw, F, whose lower end is journaled in a step, G, in the lower part of a rocking frame, H, secured to the deck, or other stationary object, by means of hinges I. The screw F has attached to it a bevel-wheel, J, in which gears another bevel-wheel, K, which is journaled in the rocking frame H, and is provided with one or more cranks or handles, L, by which the device is operated.

From the above-described preferred form of my improvement I may vary in non-essential particulars—for example, a capstan may replace the bevel-wheel K.

Claim.

I claim as new and of my invention—

The combination of screw-threaded tube E, hinged or pivoted to the movable chimney-section B, and containing a screw, F, secured in a rocking frame, H, attached to the deck or other stationary object upon the boat or vessel.

In testimony of which invention I hereunto set my hand.

JOHN CHRISTY.

Attest:

GEO. H. KNIGHT,
JAMES H. LAYMAN.