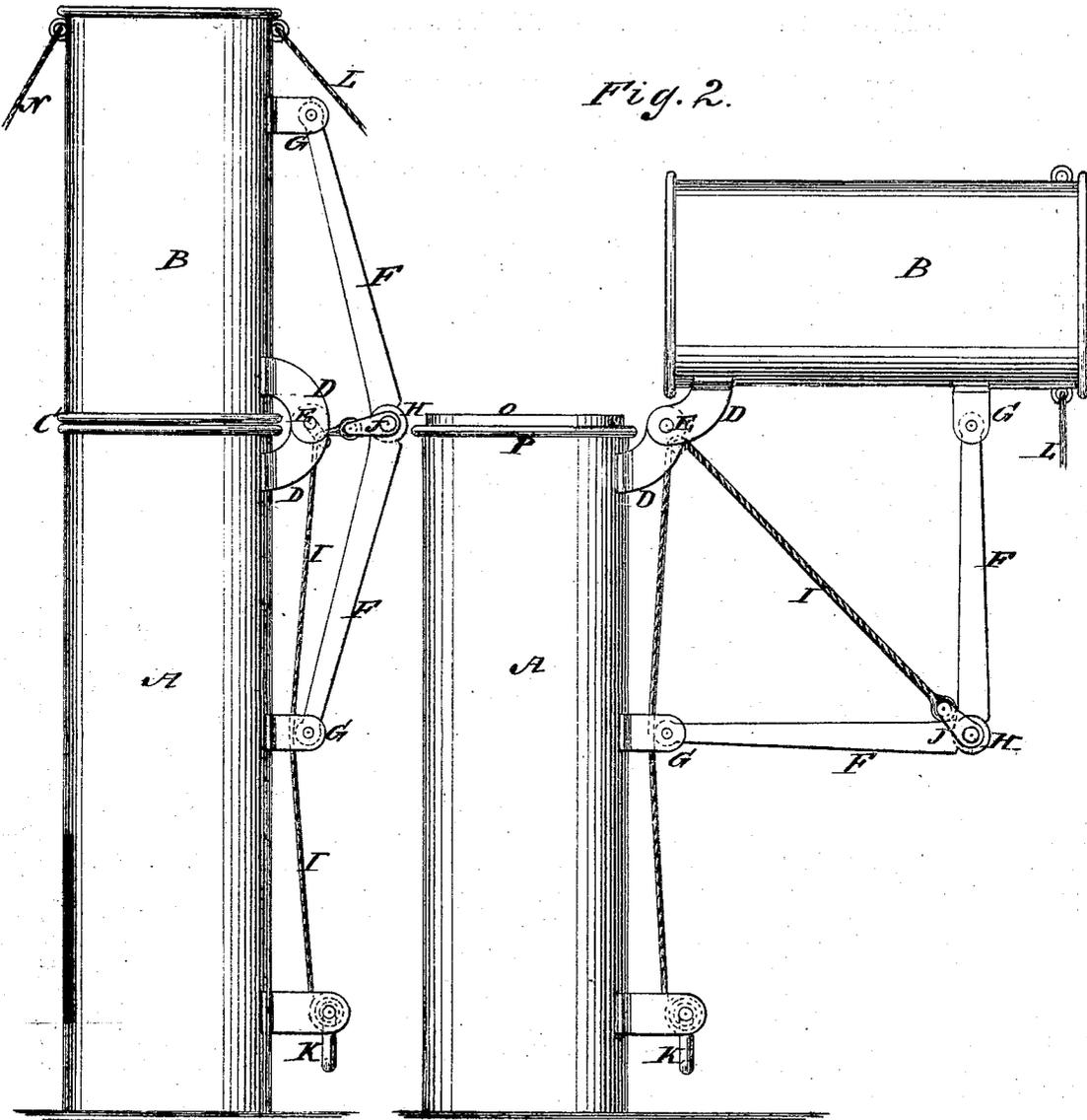


W. J. HAMILTON.
Steamboat Chimney.

Fig. 1. No. 123,825.

Patented Feb. 20, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM J. HAMILTON, OF CAIRO, ILLINOIS.

IMPROVEMENT IN STEAMBOAT-CHIMNEYS.

Specification forming part of Letters Patent No. 123,825, dated February 20, 1872.

Specification describing certain Improvements in Jointed Chimney, invented by WILLIAM J. HAMILTON, of Cairo, in the county of Alexander and State of Illinois.

The object of this invention is to provide suitable and convenient means for lowering and raising the top or upper sections of jointed steamboat-chimneys; and it consists in the construction, arrangement, and combination of parts hereinafter described.

In the accompanying drawing, Figure 1 represents an elevation of the chimney provided with my improved apparatus for lowering and hoisting the top section. Fig. 2 is a view of the chimney with the top lowered according to my invention.

Similar letters of reference indicate corresponding parts.

A is the lower portion of the chimney. B is the upper portion. The two parts are jointed together at C by a pivot-joint, consisting of a pair of curved arms, D, on each section of the chimney. The arms of each pair are placed at a sufficient distance from each other to keep the other section steady laterally. The two pairs of arms D D are connected by the pivot-bolt E, and this forms the joint upon which the section turns. To the joint-bolt E is attached an eye or pulley. F F are joint-bars, which are pivoted to the ears G G of the chimney above and below the joint C, as seen in the drawing, with their ends pivoted together directly opposite the joint C at H. I is the cord or chain connected with the pivot H by a clevis, J, or otherwise. This cord passes through the eye on the joint-bolt E, and from thence down to a windlass, K. L is guy-rope, by which the section B is drawn from an upright position, when the cord I is loosened by turning the windlass K. When the section B is drawn slightly from a perpendicular it will turn over or be lowered

by its own gravity as the rope is unwound from the windlass, and will assume the position seen in Fig. 2. By winding up the rope on the windlass the top B will be elevated to its proper position, as seen in Fig. 1. The operation of raising the top may be aided by the guy-rope N attached to the other side. The joint bars F F operate like a knuckle-joint, and are brought to nearly a straight line, where they are held by the windlass and chain or rope I. The upper part B of the chimney is held in position when upright by means of the projecting flange O and collar P, in addition to the support given by the joint-bars and joint E.

It will be seen that this apparatus is operated from the deck entirely. The device is designed to be attached to the chimneys of steamboats, for enabling them to pass under the bridges which frequently span navigable streams. Its advantages over any device for the same purpose now in use will be readily understood and appreciated by all western steamboat men.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The curved arms D, pivot-bolt or rod E, ears G G, joint-bars F F, and joint H, arranged substantially as and for the purposes described.

2. In combination with the joint-bolt E and bars F F, the windlass K, rope I, and clevis J, arranged substantially as and for the purposes described.

3. The guy-rope L, in combination with the joint-bars F F, pivot E, and windlass K, as and for the purposes described.

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