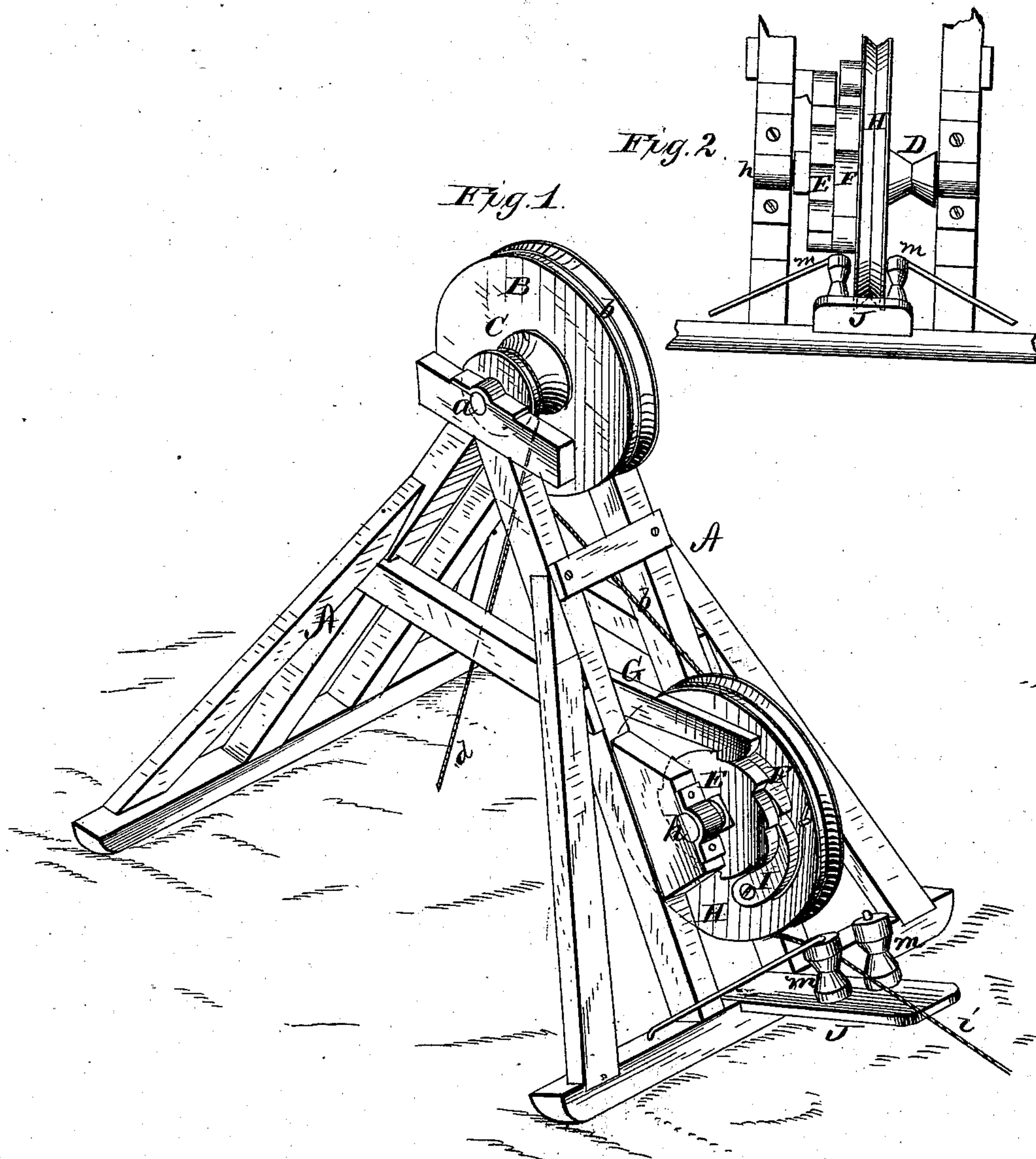


J. S. MULHOLEN.  
Stump-Puller.

No. 225,196.

Patented Mar. 2, 1880.



WITNESSES

F. L. Ouraud  
C. L. Ewert.

INVENTOR

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ATTORNEYS

# UNITED STATES PATENT OFFICE.

JOSEPH S. MULHOLEN, OF FOSTORIA, PENNSYLVANIA.

## STUMP-PULLER.

SPECIFICATION forming part of Letters Patent No. 225,196, dated March 2, 1880.

Application filed August 8, 1879.

*To all whom it may concern:*

Be it known that I, JOSEPH S. MULHOLEN, of Fostoria, in the county of Blair, and in the State of Pennsylvania, have invented certain  
5 new and useful Improvements in Stump-Pullers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked  
10 thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a stump-puller, as will be hereinafter more fully set forth.

15 In the annexed drawings, Figure 1 is a perspective view of my stump-puller. Fig. 2 is a front view of the lower portion thereof.

A represents the frame-work of my stump-puller, which frame-work can be briefly described as consisting of two sills, each having  
20 an independent frame connected to it, and these two frames placed in inclined positions, so as to join each other at their upper ends, the two frames being then suitably braced together and joined at the top by cap-pieces.

In suitable bearings at the top of the frame-work thus constructed is a shaft, *a*, upon which  
is secured a circumferentially-grooved wheel, B, and a drum, C. To the drum C is attached  
30 the rope or chain *d*, which is to be connected to the stump for pulling up the same, while to the wheel B is secured a rope or chain, *b*, which is wound around the same and then connected to and wound around a drum, D,  
35 secured upon a shaft, *h*, near the bottom of the front of the frame-work. On this shaft are also secured two ratchet-wheels, E and F,

the former having a pawl, G, engaging with it, said pawl being pivoted to the frame-work. Between the ratchet-wheels and the drum is  
40 placed a loose wheel or pulley, H, having a pawl, I, pivoted to it for engagement with the ratchet-wheel F. To the wheel or pulley H is attached the pulling rope or chain *i*, to which  
45 the team is to be connected. This rope or chain passes from under the wheel or pulley H and between two pulleys, *m m*, mounted on a platform, J, attached to the bottom of the frame-work, for keeping the rope or chain on  
50 a line with the wheel. When the team is started the wheel H is turned, which, by the pawl I engaging with the ratchet-wheel F, turns the shaft *h*, so that the drum D will also be turned, the pawl G and ratchet-wheel E preventing  
55 any backward movement. The revolution of the drum D causes the wheel B and drum C to revolve, and the rope or chain *d* will be wound up and pull the stump with it.

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

In a stump-puller of substantially the character herein shown, the combination, with the shaft *h*, of the wheel H, the ratchet-wheels E and F, with their respective pawls G I, and  
65 the pulleys *m m*, mounted on the platform J, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

JOSEPH S. MULHOLEN.

Witnesses:

ROBERT WARING,  
S. B. TEMPLETON.