

(No Model.)

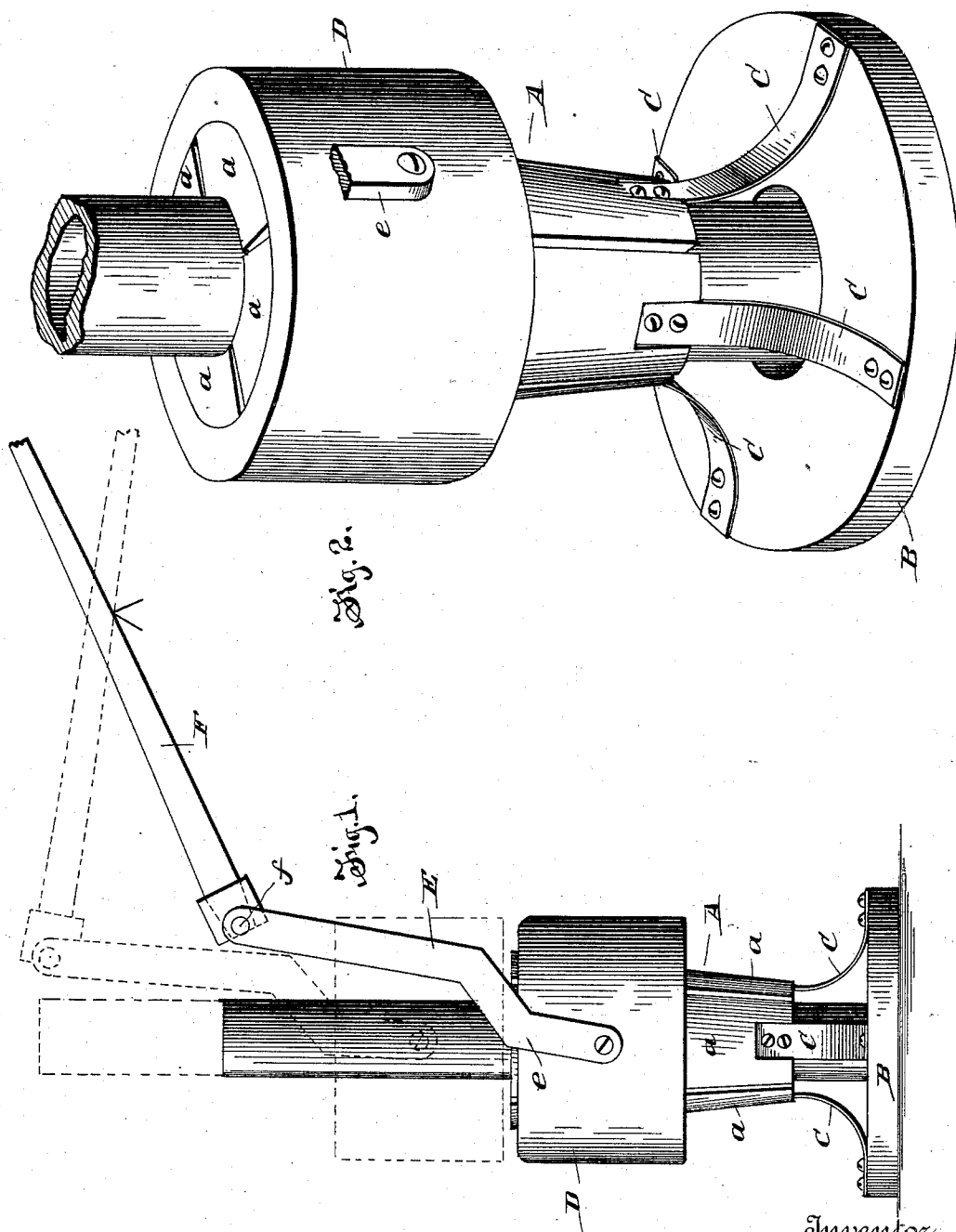
2 Sheets—Sheet 1.

W. J. HAMILTON.

MACHINE FOR PULLING DRIVEN WELL PIPES OUT OF THE GROUND.

No. 476,196.

Patented May 31, 1892.



Witnesses

Samuel K. ...
Philip Masi

Wm J. Hamilton Inventor
by E. W. Anderson
his Attorney

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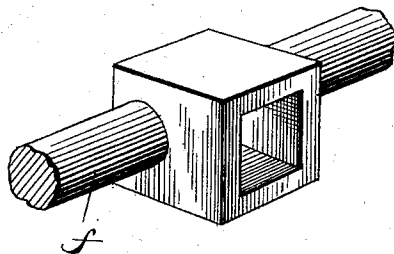
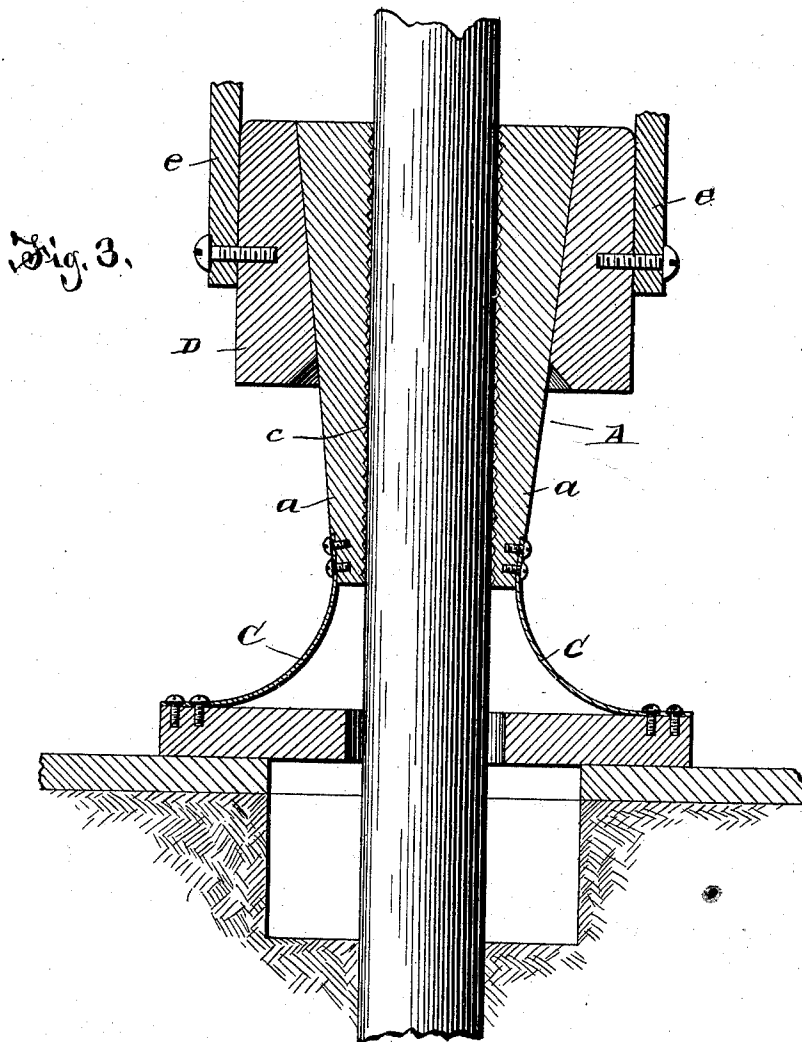


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM J. HAMILTON, OF RICHMOND, INDIANA, ASSIGNOR OF TWO-THIRDS
TO JOHN W. HOEY AND FREDERICK A. WILKE, OF SAME PLACE.

MACHINE FOR PULLING DRIVEN WELL-PIPES OUT OF THE GROUND.

SPECIFICATION forming part of Letters Patent No. 476,196, dated May 31, 1892.

Application filed August 25, 1891. Serial No. 403,687. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. HAMILTON, a citizen of the United States, and a resident of Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Machines for Pulling Driven-Well Pipes Out of the Ground; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view. Fig. 2 is a perspective view in detail of the machine, partly broken away. Fig. 3 is a vertical sectional view, and Fig. 4 is a detail view in perspective.

This invention has relation to devices for drawing driven-well pipes; and it consists in the novel construction and combination of parts, as hereinafter described, and pointed out in the claims.

In the accompanying drawings the letter A designates the clamp for engagement with the pipe, which is shown as of inverted frusto-conical form made in four independent segments or sections *a a*, &c., which are connected at their lower ends to a base-piece B by means of a spring arm or strap C. Each of these segments or jaws *a* are adapted on their inner faces to fit around and engage a portion of the surface of the cylindrical pipe, forming a cylindrical aperture *c*, which registers with a central aperture through the base-piece B.

D designates an annular clamp or collar fitting closely around the lower portion of the jaws and having its inner surface beveled to fit closely around the upper portion of said jaws when raised.

E is a yoke having the arms *e* pivoted on opposite sides of the clamping-collar D and united at their upper ends by the transverse bar *f*, having its ends journaled therein and provided with a seat or socket for an operating-lever F.

The operation of the device is as follows: The pump is removed from the pipe to be drawn and the device placed thereon, with the

end of the pipe passing up through the aperture *b* in the base and between the jaws. The lever is then placed in its seat or socket and provided with a heel or support at any suitable point, according to the amount of leverage to be obtained and the lever worked up and down, like the handle of a pump. When the lever is depressed, the clamping-collar will be moved up on the jaws, causing them to firmly grasp the pipe, and the whole device is raised, drawing the pipe with it. When the lever is raised, the collar falls from engagement with the jaws, permitting the machine to slip down on the pipe. When the lever is again depressed, the jaws take a new hold on the pipe at a lower point, and this operation is repeated. It will be seen that by reason of the spring connection of the jaws with the base they will accommodate themselves to several different sizes of pipes, although different sizes of machines may be constructed. It will also be observed that the device instead of being formed in four segments or jaws, as shown, may be constructed of a greater or less number, as may be desired.

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

1. The herein-described device for pulling pipes, comprising the base having an aperture therein, the segmental tapered jaws inclosing a circular aperture registering with the aperture in the base, said jaws being supported over the base by spring-arms, an annular collar beveled on its inner surface to fit said jaws, and a yoke-and-lever device for operating said collar, substantially as specified.

2. The herein-described device for pulling pipes, comprising an apertured base, a series of segmental jaws arranged in frusto-conical form having a yielding support over said base, the annular collar encircling said jaws and having an inner beveled surface, and the yoke-and-lever device for operating said collar, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM J. HAMILTON.

Witnesses:

THOMAS J. FINN,
BENJ. F. HARRIS.