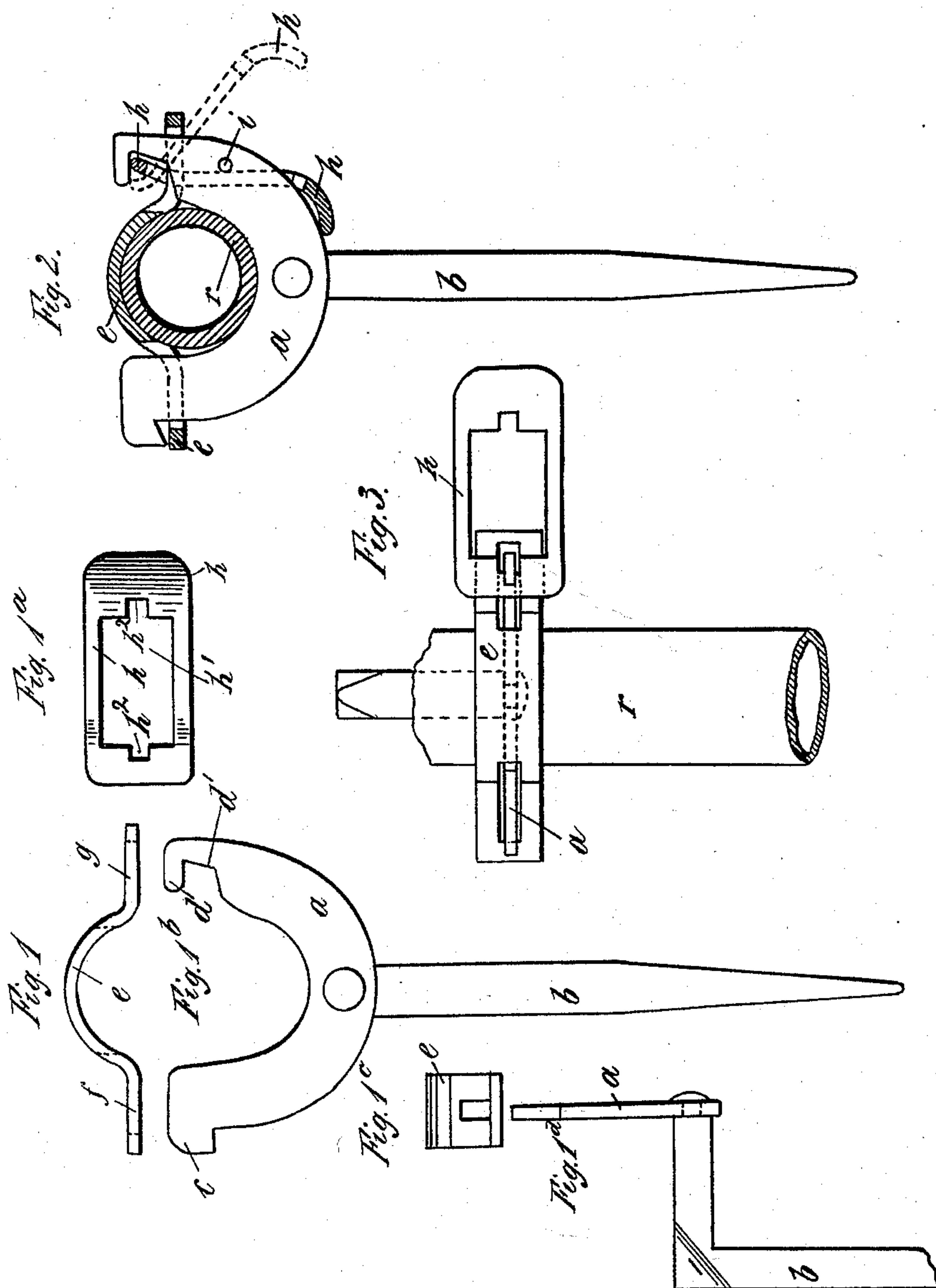


(No Model.)

T. B. SAUER.  
PIPE HANGER.

No. 603,924.

Patented May 10, 1898.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

THEODOR BONAVENTURA SAUER, OF OBERREIFENBERG, GERMANY.

## PIPE-HANGER.

SPECIFICATION forming part of Letters Patent No. 603,924, dated May 10, 1898.

Application filed February 10, 1897. Serial No. 622,800. (No model.)

*To all whom it may concern:*

Be it known that I, THEODOR BONAVENTURA SAUER, of Oberreifenberg, near Frankfurt-on-the-Main, in the Kingdom of Prussia, German Empire, have invented an Improved Pipe-Hanger, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention is a clamp or shackle for holding tubes; and the invention is in general characterized by two clamping-sections adapted to embrace the tube and having means for holding them together and a spike or shank rigidly attached to one section and designed to be driven into a support by which the shackle or clamp is held.

This specification is the disclosure of one form of my invention, while the claims define the actual scope of the conception.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front edge elevation of the clamp or outer section of the clamp. Fig. 1<sup>a</sup> is a plan view of a locking-plate for holding the two sections of the clamp together. Fig. 1<sup>b</sup> is a front elevation of the main section of the clamp and the spike therefor. Fig. 1<sup>c</sup> is an end view of the cap-section of the clamp. Fig. 1<sup>d</sup> is an end view of the main section of the clamp. Fig. 2 is a sectional view of the clamp with the parts in connection with each other, and Fig. 3 is a plan view of the invention.

The main section *a* of the clamp has at one end a hook *c* and at the other end a notch *d'*, forming an inwardly-turned projection *d*. The spike *b* is given an angular form and has one end rigidly secured to the section *a*. The section *a* is curved into approximately semi-circular form. The cap-section *e* is formed of a plate of metal, the intermediate portion of which is curved to embrace the pipe and the end portions of which are respectively provided with recesses *f* and *g*, designed to receive, respectively, the ends of the section *a*.

The sections *a* and *e* are held together, as indicated in Fig. 2, by means of a lock-plate *h*. The opening *f* of the section *e* receives the end of the section *a*, having the hook *c*,

so that the hook *c* will engage with the top face of the section *e*. The locking-plate *h* has an opening *h'* in the center thereof. The opening *h'* terminates at each end with a counter-recess *h*<sup>2</sup>. When the locking-plate is in position, one end of the locking-plate engages under the finger *d* of the section *a* and the other end lies at the lower edge of the section *a* near the middle thereof, the plate *h* extending approximately vertically and being held in such position by a pin *i*, run through the section *a*, as indicated in Fig. 2. The counter-recesses *h*<sup>2</sup> serve the one to receive a portion of the edge of the section *a* to prevent the plate *h* from rocking on the section *a* when the plate is in position and the other to receive a portion of the projection *d*, whereby it is possible to place and displace the plate *h*. The opening *h'* in the plate *h* is of sufficient size to receive one end of the cap-section *e* of the shackle. By this construction the sections *a* and *e* are held rigidly around the tube *r*. The sections may be readily disconnected from each other, which operation is effected by withdrawing the pin *i* and moving the locking-plate *h* outward, rolling the upper edge of said plate in the space beneath the projection *d* until the plate *h* occupies an approximately vertical position above the section *e*, whereupon the plate *h* may be readily lifted out of engagement with the projection *d*. The spike *b* is to be driven into a wall of masonry, whereby to support the shackle, as will be understood.

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

1. The combination of two clamping-sections, a spike secured to the first of said sections and capable of holding the same in position, the said first section being curved and provided at one end with an outwardly-extending hook and at the other end with a notch forming an inwardly-turned projection, the second section being curved and having a recess at each end, the recesses respectively receiving the ends of the first-named section, and the hook of the said first-named section engaging with the said remaining section, and a lock-plate having an opening capable of receiving the end of the first-named section which end



has the projection, and the lock-plate being also capable of receiving the adjacent end of the second-named section and of engaging under the projection of the first-named section whereby to hold the two sections engaged.

2. The combination of two sections capable of embracing a pipe, the first section having a hook at one end and a projection at the other end, and the second section having a recess in each end, the recesses of said second section respectively receiving the ends of the first-named section, and the hook of the first-named section engaging the adjacent end of the second section to hold the same, and a lock-plate having an opening therein, the opening being capable of receiving the end of the first-named section which has the projection and the adjacent end of the said sec-

ond section, the lock-plate being capable of engaging beneath the projection.

3. The combination of two sections capable of embracing a pipe, the sections being also capable of connection with each other at one end, the remaining end of one section having a projection, and the remaining or corresponding end of the other section having an opening through which the said projection passes, and a lock-plate capable of connection with the last-named ends of the sections and of engaging beneath the projection to hold the sections together.

In witness whereof I have hereunto set my hand in presence of two witnesses.

THEODOR BONAVENTURA SAUER.

Witnesses:

JEAN GRUND,

FRANK H. MASON.