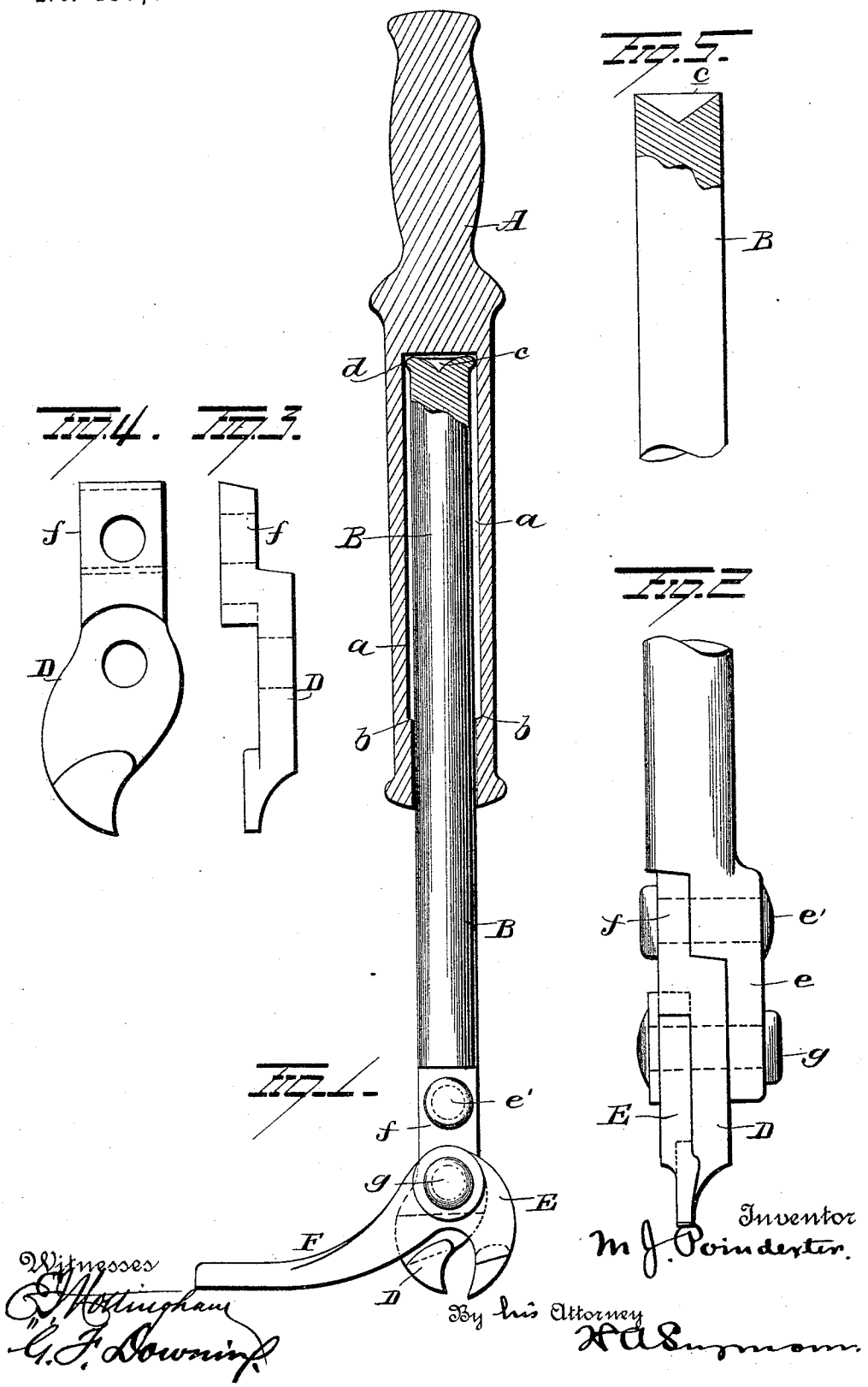
(No Model.)

M. J. POINDEXTER.

NAIL EXTRACTOR.

No. 457,925. Patented Aug. 18, 1891.



Witnesses
E. Hollingham
G. F. Downing

Inventor
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UNITED STATES PATENT OFFICE.

MARTIN J. POINDEXTER, OF READING, PENNSYLVANIA.

NAIL-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 457,925, dated August 18, 1891.

Application filed September 20, 1890. Serial No. 365,667. (No model.)

To all whom it may concern:

Be it known that I, MARTIN J. POINDEXTER, a citizen of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Nail-Extractors; and I do hereby 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.

My invention relates to an improvement in nail-extractors, its object being to produce a device for extracting nails which shall be simple in construction, cheap to manufacture, and easy to manipulate.

A further object is to so construct a nail-extractor that the biting-jaws thereof may be detached when broken and replaced by new ones.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation, partly in section, of my improved nail-extractor. Fig. 2 is an edge view of the jaws and their connection to the shank. Figs. 3, 4, and 5 are views of certain details.

A represents a handle or rammer provided with a socket *a*, one end of which is somewhat contracted in size to produce an annular flange or shoulder *b*. Inserted in the socket *a* is a rod or shank B, the upper end of which is provided with a conical recess *c*, as shown in Figs. 1 and 5, and then upset to produce an annular flange *d*, adapted to abut against the shoulder *b* and prevent the escape of the shank B from the socket in the handle A. The object of the conical recess is to facilitate the upsetting of the end of the rod, the flange being formed by the pounding contact of the handle against it. The lower end of the shank is provided with an arm or extension *e*, projecting laterally, forming two shoulders, as shown, against which the upper end *f* and shoulder of the fixed jaw D respectively bear. By this arrangement of parts a single pin or rivet *e'* is sufficient to securely lock the fixed jaw against movement. The jaw is, however, supported to a certain extent by the pin *g*, which carries the movable jaw; but the two shoulders on shank *e* are effective and simple means for forming a rigid connection between the shank *e* and the fixed jaw. A pin *g* passes through the forward end of the arm or extension *e*, and through the jaw D, and loosely mounted on this pin is a jaw E, and projecting from this jaw is a lever F, adapted to maintain the jaws normally open, and when pressed against the article from which the nail is being extracted to close said jaws and cause them to grip the head of the nail. By thus constructing a nail puller or extractor, a very simple device will be produced, and one which will be cheap to manufacture and effective in the performance of its functions.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope. Hence I do not wish to restrict myself to the precise details of construction herein set forth; but,

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

1. The combination, with the shank of a nail-extractor upset at one end and provided at its opposite end with jaws, of a handle having a socket formed therein to receive the upset end of the shank, the bore of the outer end of the handle being of less diameter than the diameter of the upset end of the shank, whereby to prevent the separation of the shank and handle, substantially as set forth.

2. In a nail-extractor, the combination, with a shank having two shoulders thereon, of a fixed jaw, one end of which engages one shoulder of the shank, this jaw provided with a shoulder for engaging the other shoulder of the shank, a pin or rivet for fastening the fixed jaw to the shank, and a movable jaw carried by a bearing projecting laterally at

one side of the fixed jaw, said jaw having a lever projecting therefrom, substantially as set forth.

3. In a nail-extractor, the combination, with a socket-handle having an internal shoulder, of a shank carrying jaws, the upper end of the shank being recessed and upset at its top to produce a flange, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MARTIN J. POINDEXTER.

Witnesses:
F. PIERCE HUMMEL,
GEO. D. STITZEL.