

(No Model.)

J. F. STEWARD.
SCREW DRIVER.

No. 472,591.

Patented Apr. 12, 1892.

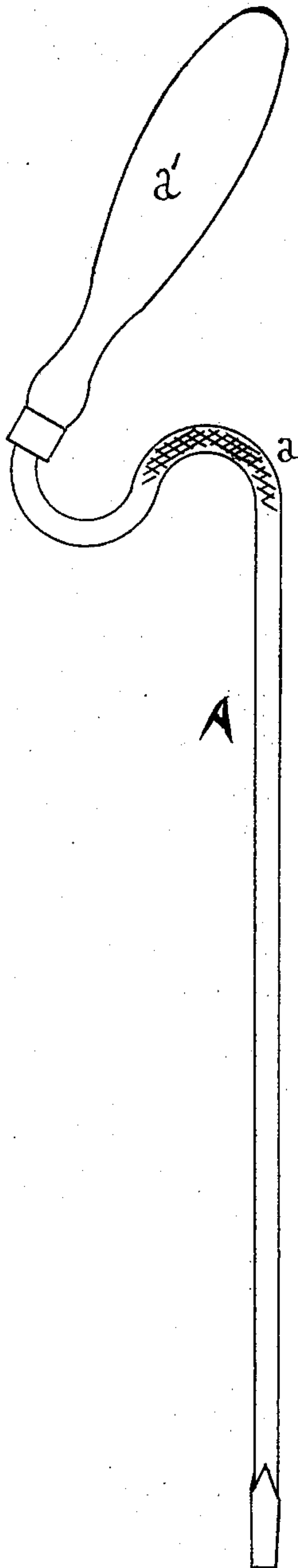


Fig. 1.

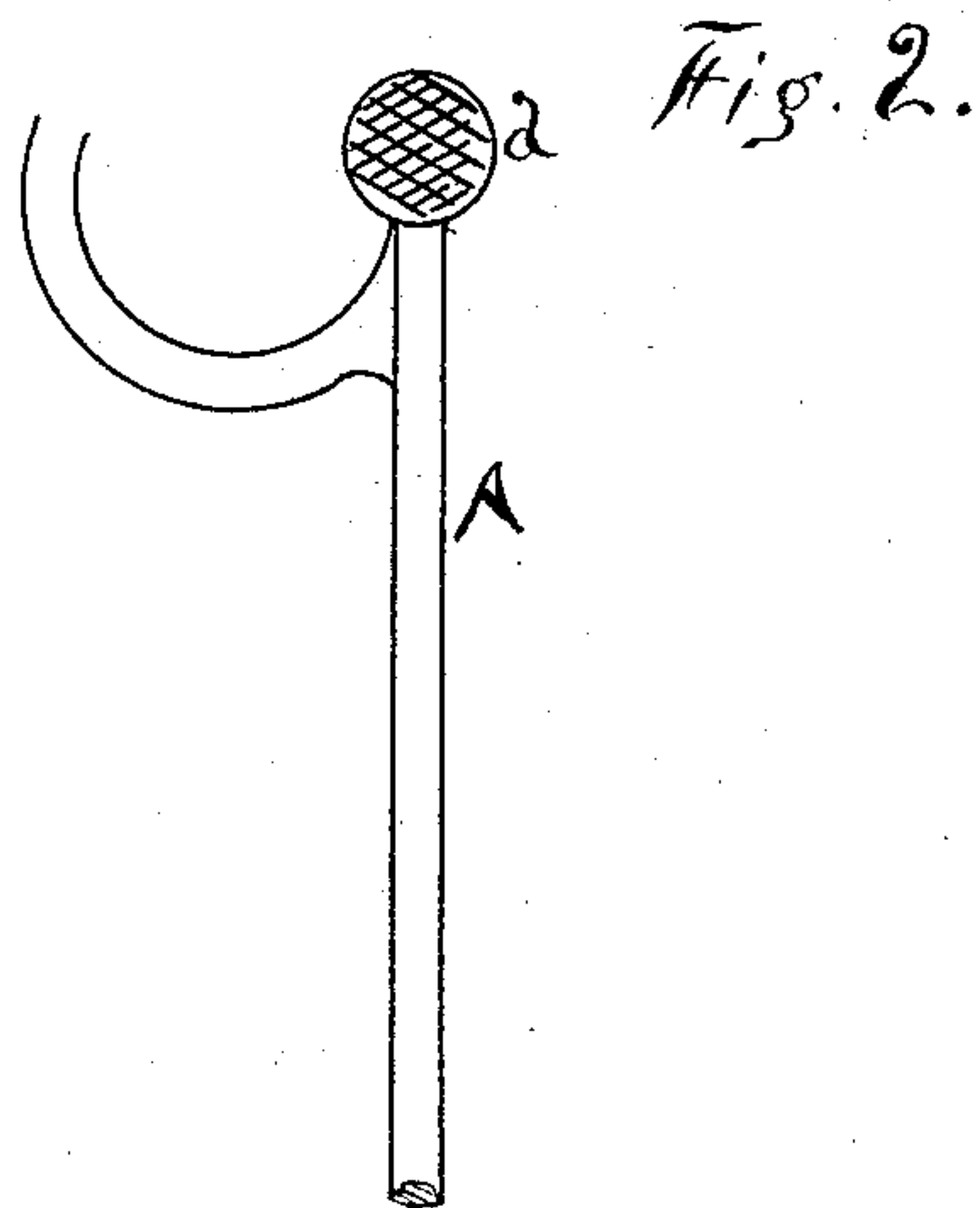


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN F. STEWARD, OF CHICAGO, ILLINOIS.

SCREW-DRIVER.

SPECIFICATION forming part of Letters Patent No. 472,591, dated April 12, 1892.

Application filed August 19, 1891. Serial No. 403,139. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. STEWARD, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Screw-
5 Driver, of which the following is a full description, reference being had to the accompanying drawings.

Figure 1 shows the tool in its simplest and
10 cheapest form, and Fig. 2 represents a modified form.

The tool here shown is designed so as to
render it more convenient to the hand oper-
ating it than that forming the subject-matter
of my Letters Patent of the United States,
15 dated September 29, 1891, No. 460,256; and the
nature of the invention consists in providing
a thumb and finger pad to enable the operator
to apply a great amount of stress to the tool
when starting a screw, when running it out,
20 or in driving it fully home.

A is the shank of the screw-driver having
a crank with a diagonal wrist at one end pro-
vided with a handle *a'*, preferably loose on
the wrist, and a tool formed at the other end.
25 The invention is applicable to any tool that
requires rotation.

a is a pad, so located that the thumb or fore-
finger of the hand holding the tool may reach
it and the handle of the tool, as a whole, be
30 held and turned with a positive force. The
pad *a* must of course be located so as to be
in convenient reach and may be formed as a
special part, as shown in Fig. 2, or formed by
recurving the shank, as shown in Fig. 1, or by

other means. The pad is preferably rough- 35
ened. If the handle be grasped with one
hand, the pad *a* will always be in such a posi-
tion that it may be pressed upon by the forefin-
ger or the thumb of the hand that holds it. The
handle proper, being loose, cannot serve as an 40
ordinary screw-driver handle, nor by gripping
it tightly can the screw be turned if the re-
sistance be great; but if the pad be used the
tool may be rotated with a positive force, and
by using the thumb and the finger alternately 45
during each half-revolution a screw may be
given several turns more than if the swinging
action of the handle alone be depended upon.
The tool being made as shown in my patent
above referred to, the hand that holds it can- 50
not prevent the blade from swinging, and the
otherwise free hand must be used to guide the
point into the screw-head. The part *a* of the
present improvement is brought so far up that
the thumb or finger may so control that the 55
tool may be guided by the hand that holds.

What I claim is—

In a screw-driver or other tool that is adapted
to do its work by rotation, the combination of
the blade A, the crank having the diagonal 60
wrist *a'*, and the pad *a*, the latter so near to
said crank that the finger and thumb of the
hand holding the tool may reach and press
upon the same, substantially as described.

JOHN F. STEWARD.

Witnesses:

IDA E. HILLS,
S. L. STEWARD.