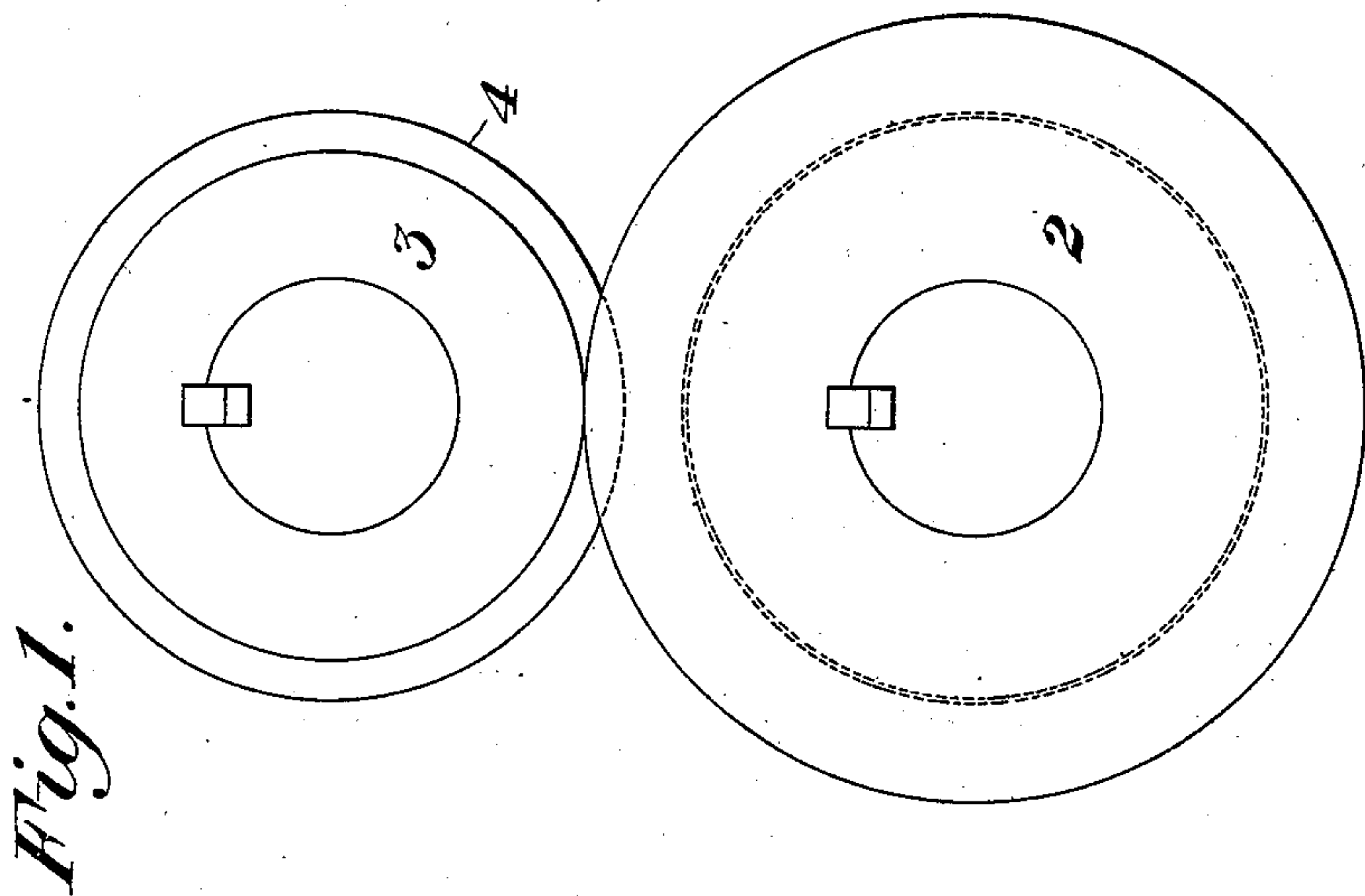
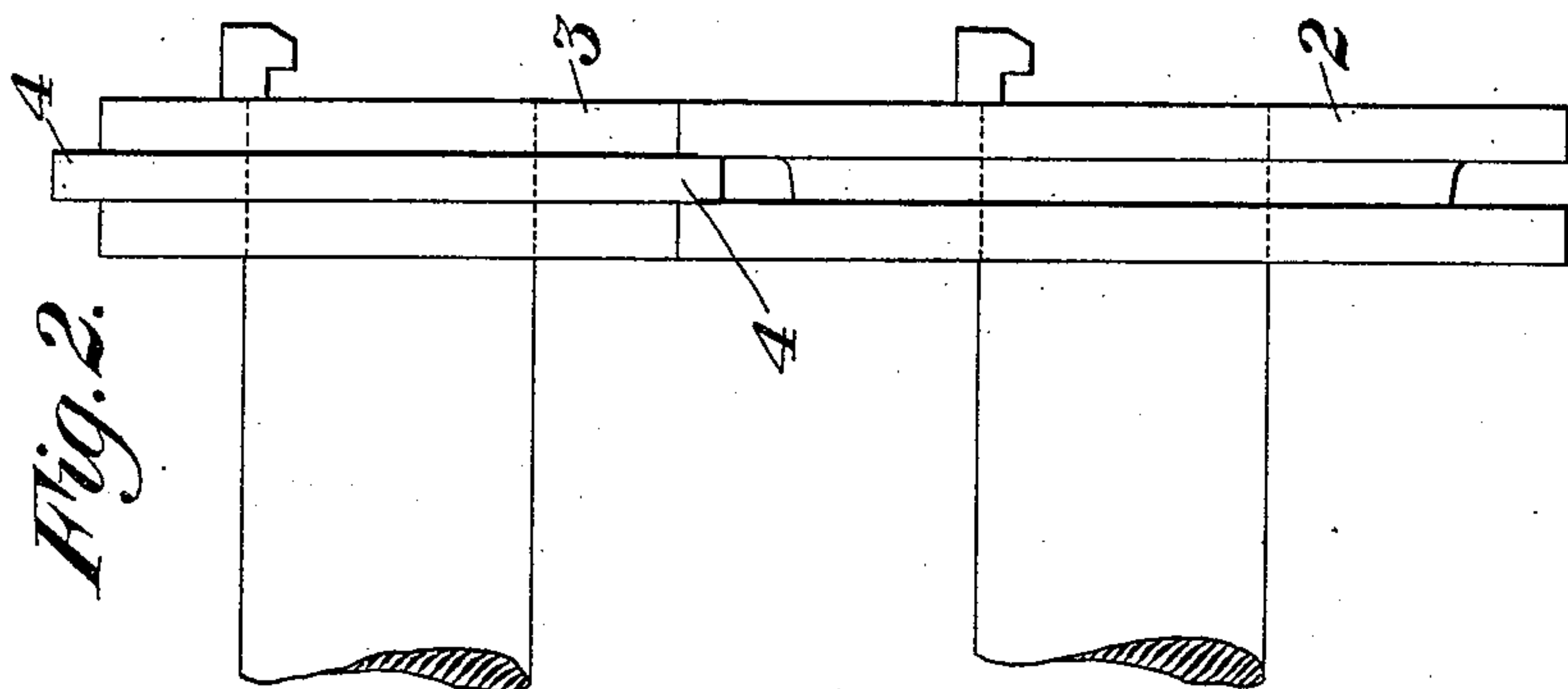


(No Model.)

W. D. YOUNG.
MANUFACTURE OF HORSESHOE BARS.

No. 541,649.

Patented June 25, 1895.



WITNESSES

W. B. Corwin
H. M. Corwin

INVENTOR

William D. Young
by W. B. Corwin & Sons
his attorneys

UNITED STATES PATENT OFFICE.

WILLIAM D. YOUNG, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO THE
SHOENBERGER STEEL COMPANY, OF SAME PLACE.

MANUFACTURE OF HORSESHOE-BARS.

SPECIFICATION forming part of Letters Patent No. 541,649, dated June 25, 1895.

Application filed July 18, 1894. Serial No. 517,944. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM D. YOUNG, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented a new
5 and useful Improvement in the Manufacture
of Horseshoe-Bars, of which the following is a
full, clear, and exact description, reference
being had to the accompanying drawings, in
which—

10 Figure 1 is an end elevation of my improved
rolls. Fig. 2 is a front elevation of the same,
and Fig. 3 is a cross-section of the blank op-
erated upon.

My invention relates to the manufacture of
15 horse-shoes, and is designed to afford an im-
proved method of turning in the edge of the
blank and, at the same time, removing the
scale therefrom. This scale has been found
very troublesome in the subsequent opera-
20 tions upon the blank, and by my improved
system I entirely remove the same simulta-
neously with the beveling or inturning of the
edge portion.

25 In the drawings, 2 represents a lower verti-
cal roll having an annular groove or pass
therein, and 3 an upper roll having a collar 4
which fits in the groove of the lower roll. The
bottom of the groove is filleted or inclined, as

shown in Fig. 2, so as to turn in the edge of
the blank which has been spread by the creas- 30
ing operation, and as the blank moves through
the pass the faces of the lower roll on each side
of the pass move over the sides of the blank,
which is compressed in a vertical direction,
and remove the adhering scale therefrom. 35

It is evident that if the blank were rolled
flatwise or horizontally, the side faces would
be compressed, and there would be no scrap-
ing action as the blank passed through.

The advantages of my invention will be ap- 40
parent to those skilled in the art, since with-
out additional means, or another step, the
scale is scraped off at the same time with the
inturning of the edge portion of the blank.

I claim—

45 The method of finishing horse-shoe blanks
consisting in creasing the blank, and then si-
multaneously compressing the blank verti-
cally to in-turn the edge, and scraping the
scale from its sides, substantially as described. 50

In testimony whereof I have hereunto set
my hand.

WILLIAM D. YOUNG.

Witnesses:

W. B. CORWIN,
C. BYRNES.