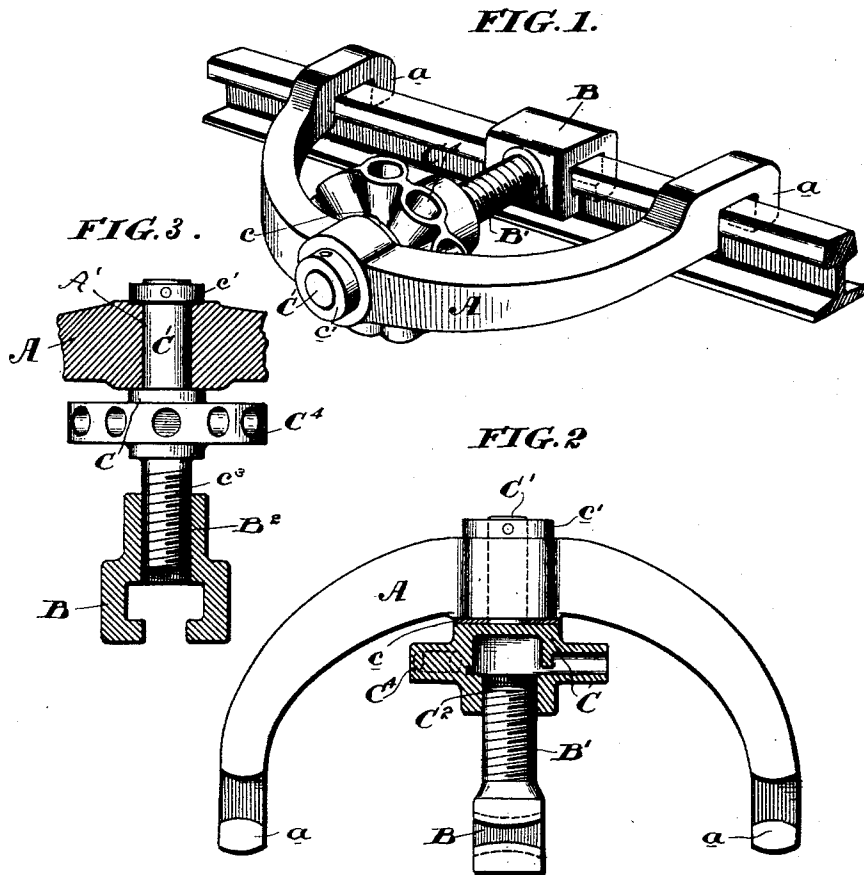


(No Model.)

W. H. PHILLIPS.
RAIL BENDING TOOL.

No. 520,078.

Patented May 22, 1894.



WITNESSES:
David S. Williams
Joshua Matlack, Jr.

INVENTOR:
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UNITED STATES PATENT OFFICE.

WILLIAM HENRY PHILLIPS, OF JENKINTOWN, ASSIGNOR TO THE
BREUIL-PHILLIPS MANUFACTURING COMPANY, OF PHILADEL-
PHIA, PENNSYLVANIA.

RAIL-BENDING TOOL.

SPECIFICATION forming part of Letters Patent No. 520,078, dated May 22, 1894.

Application filed April 2, 1890. Serial No. 346,266. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY PHIL-
LIPS, of Jenkintown, county of Montgomery,
State of Pennsylvania, have invented a cer-
tain new and useful Improved Rail-Bending
Tool, of which the following is a true and ex-
act description, reference being had to the
accompanying drawings, which form a part of
this specification.

My invention relates to rail bending tools
of the general character of that shown in my
former patent granted March 12, 1889, and
numbered 399,630.

The construction of my new tool will be
best understood as described in connection
with the drawings in which it is illustrated
and in which—

Figure 1, is a perspective view of the tool;
Fig. 2 an elevation thereof partly in section;
Fig. 3 an elevation showing still another modi-
fication.

A is a beam provided with downwardly-ex-
tending arms as shown, the beam and arms
being preferably cast or forged in a crescent
shape as shown in the drawings and provided
at the ends of the downwardly-extending
arms with heads *a a* formed to engage and
grip the rail. A perforation, *A'*, is formed
through the center of the beam as shown.

B is the bent head formed like the heads *a*
to engage and grip the rail and provided with
a threaded shank *B'*.

C is what I may call a turn-buckle. It is
threaded at one end, *C²*, to engage the threaded
end of the shank *B'*, and its other extremity
passes through the perforation *A'* in the beam
and is engaged with the said beam so as to
remain immovable with relation to it against

any longitudinal stress. This turn-buckle is
also provided with an enlargement *C⁴* by
which it can be rotated. As shown in Figs.
1 and 2 the portion *C'* of the turn-buckle
which passes through the beam is secured to
it by means of a collar *c'* on its upper end
and a brass friction washer *c* interposed be-
tween the inside of the beam and the enlarge-
ment *C⁴*. In this construction the turn-buckle
has no longitudinal movement with respect
to the beam being only capable of a move-
ment of rotation which, by reason of its en-
gagement with the shank of the bending
head, draws said bending head in or pushes
it out.

In Fig. 3 I have illustrated an obvious
modification of my device, the portion of the
turn-buckle which engages with the shank *B*
of the bending head being externally thread-
ed and marked *C³*, while the shank of the
bending head is provided with an internal
thread as indicated at *B³*.

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

In a rail bending tool the combination of a
beam having arms for engaging the rail, a
bending head adapted to engage the rail and
having a screw threaded shank, and a turn-
buckle engaging the threaded end of the
head, said turn-buckle being secured to the
beam so as to turn therein without longitu-
dinal movement.

WILLIAM HENRY PHILLIPS.

Witnesses:

LISLE STOKES,
JOSHUA MATLACK, Jr.