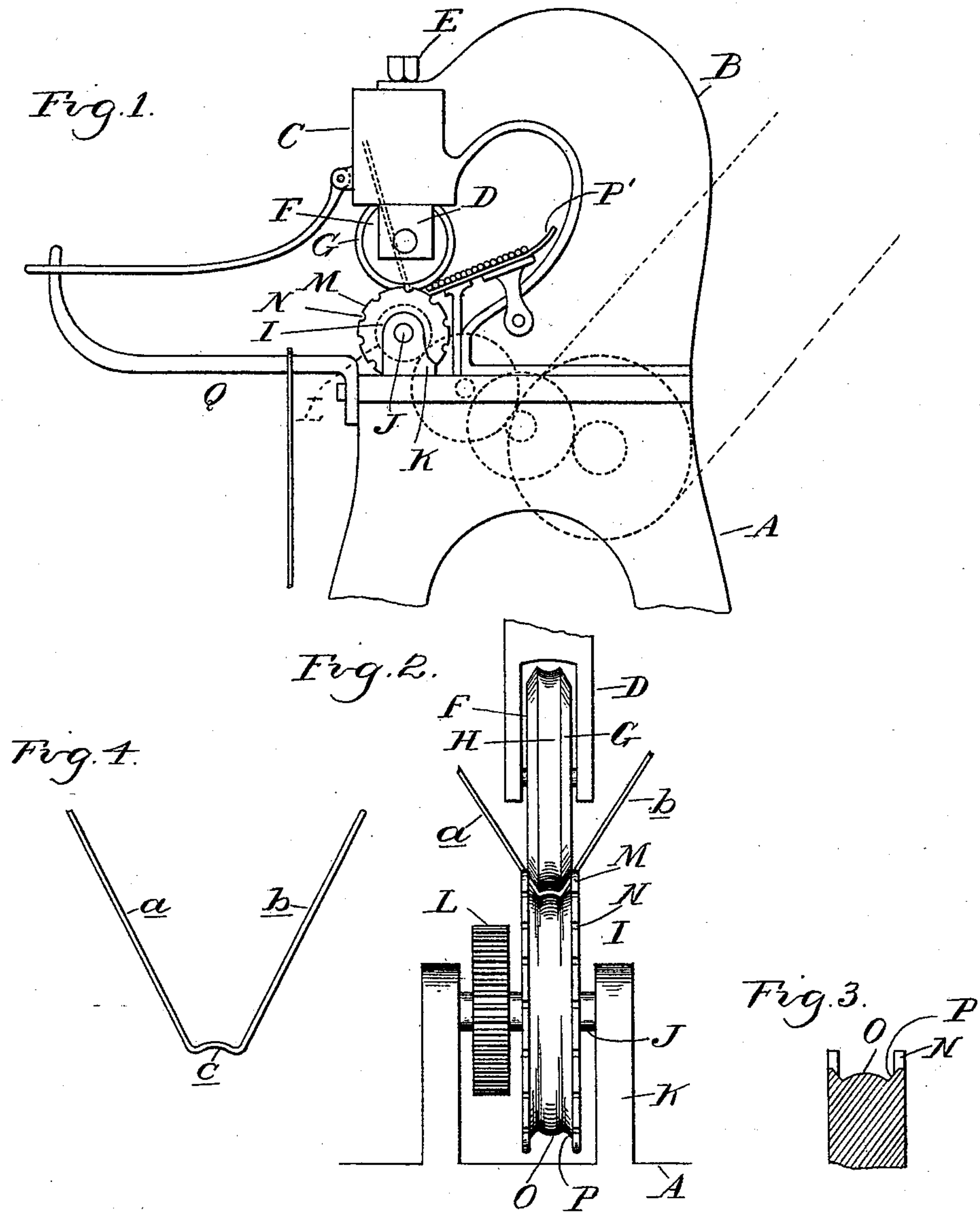


(No Model.)

P. GENDRON.
SPOKE BENDING MACHINE.

No. 500,383.

Patented June 27, 1893.



Witnesses
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N. L. Lindop

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UNITED STATES PATENT OFFICE.

PETER GENDRON, OF TOLEDO, OHIO.

SPOKE-BENDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 500,383, dated June 27, 1893.

Application filed February 13, 1893. Serial No. 462,126. (No model.)

To all whom it may concern:

Be it known that I, PETER GENDRON, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have
5 invented certain new and useful Improvements in Spoke-Bending Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in the peculiar construction and arrangement of a machine designed to bend a piece of wire or other metal strip into proper shape to form two spokes of a metallic wheel, with a proper bearing for
15 the hub.

The invention further consists in the peculiar construction, arrangement and combination of the various parts, all as more fully hereinafter described.

20 In the drawings, Figure 1 is a side elevation of the machine. Fig. 2 is a front elevation of the shaping wheels. Fig. 3 is a section of one of the forming wheels. Fig. 4 is an elevation of the spoke formed.

25 A is the base.

B is a curved standard, having a vertical guide bearing C at the front, in which the head D is adjustably secured by means of a screw E. This head is bifurcated at its lower
30 end and carries in the bifurcation the forming wheel F. This wheel has beveled edges G and a concave peripheral face H.

I is a wheel, secured to the shaft J, journaled in brackets K on the base A, and provided with any suitable means for driving it. I have shown a pinion L to which motion may be communicated from any desired source of power. This wheel has the peripheral flanges M projecting from each edge, and provided
40 with a series of notches N. Between the flanges the wheel is provided with the convex face O and inclined faces P which extend from the bottom of the convex portion up into the notches, as plainly shown in Fig. 3.

45 P' is an inclined guide in the rear of the forming wheels.

The parts being thus constructed and motion communicated to the wheel I, through

the mechanism described, if a number of pieces of wire are laid upon the inclined guide P, they will be fed by gravity to the lower end thereof, and as the wheel I turns and presents one of its notches toward the inclined guide, one of the wires will fall into the notch and be carried with the wheel in its rotation. As
50 soon as it strikes the forming wheel F, it will be bent centrally and shaped between the wheels, as shown in Fig. 2, being carried on by the rotation of the wheel to the opposite side where it will fall off and be caught upon
60 the arm Q from which it may be taken when desired. The spoke thus formed is shown in Fig. 4, the two arms *a b* forming two spokes of the wheel and the bent portion *c* forming the central bearing for engaging with the
65 hub. With this machine it is evident that all that is necessary is to feed the wires upon the inclined guide P'. It is obvious that these wheels may be modified as desired to form different bends in the wire, and I do not wish
70 to limit myself to the precise form shown.

The essence of my invention consists as I understand it in the intermeshing forming wheels or dies, one of which is notched to automatically feed the wires between the two. 75

What I claim as my invention is—

1. In a metal bending machine, the combination of a wheel, having peripheral notched flanges, means for rotating said wheel, and a second wheel having a complementary inter
80 engaging rim, substantially as described.

2. In a metal bending machine, the combination of a wheel having peripheral notched marginal flanges, and shaping bearings and dies at the notches, means for rotating said
85 wheel and a second wheel having a rim provided with complementary bearings journaled above the flanged wheel and engaging with its rim between the flanges, substantially as described. 90

In testimony whereof I affix my signature in presence of two witnesses.

PETER GENDRON.

Witnesses:

M. B. O'DOHERTY,
N. L. LINDOP.