

(No Model.)

E. M. COOPER.

MACHINE FOR MAKING WIRE FENCES.

No. 355,812.

Patented Jan. 11, 1887.

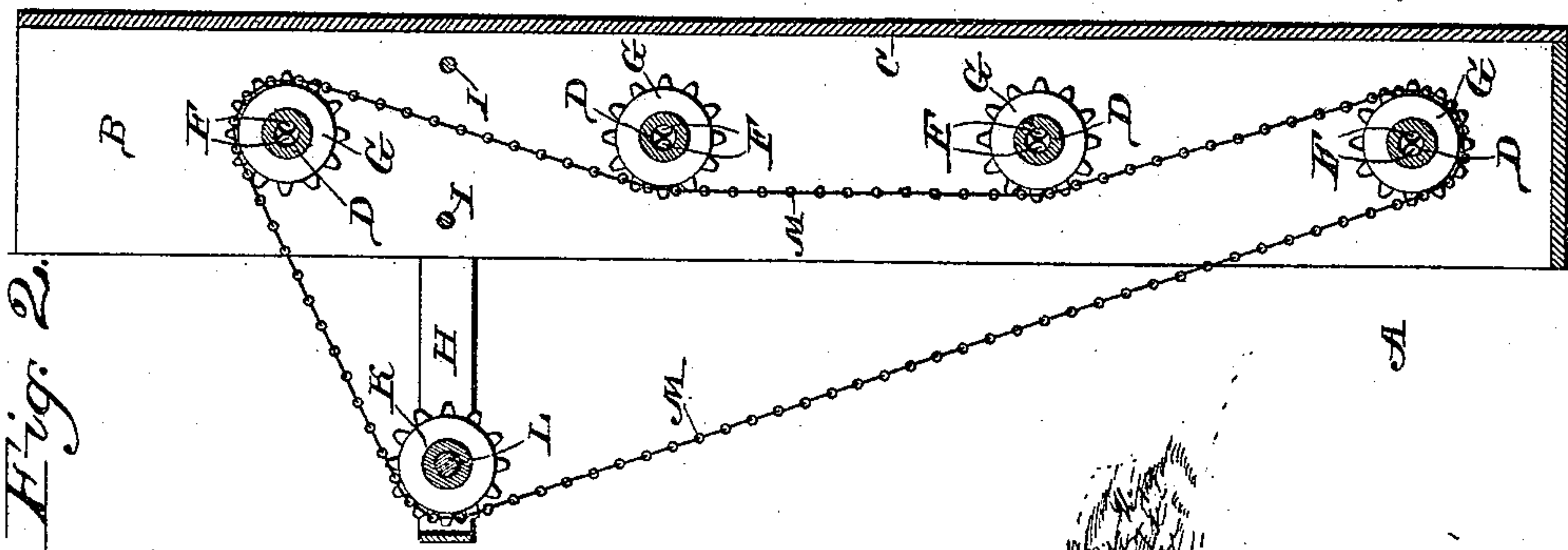


Fig. 2.

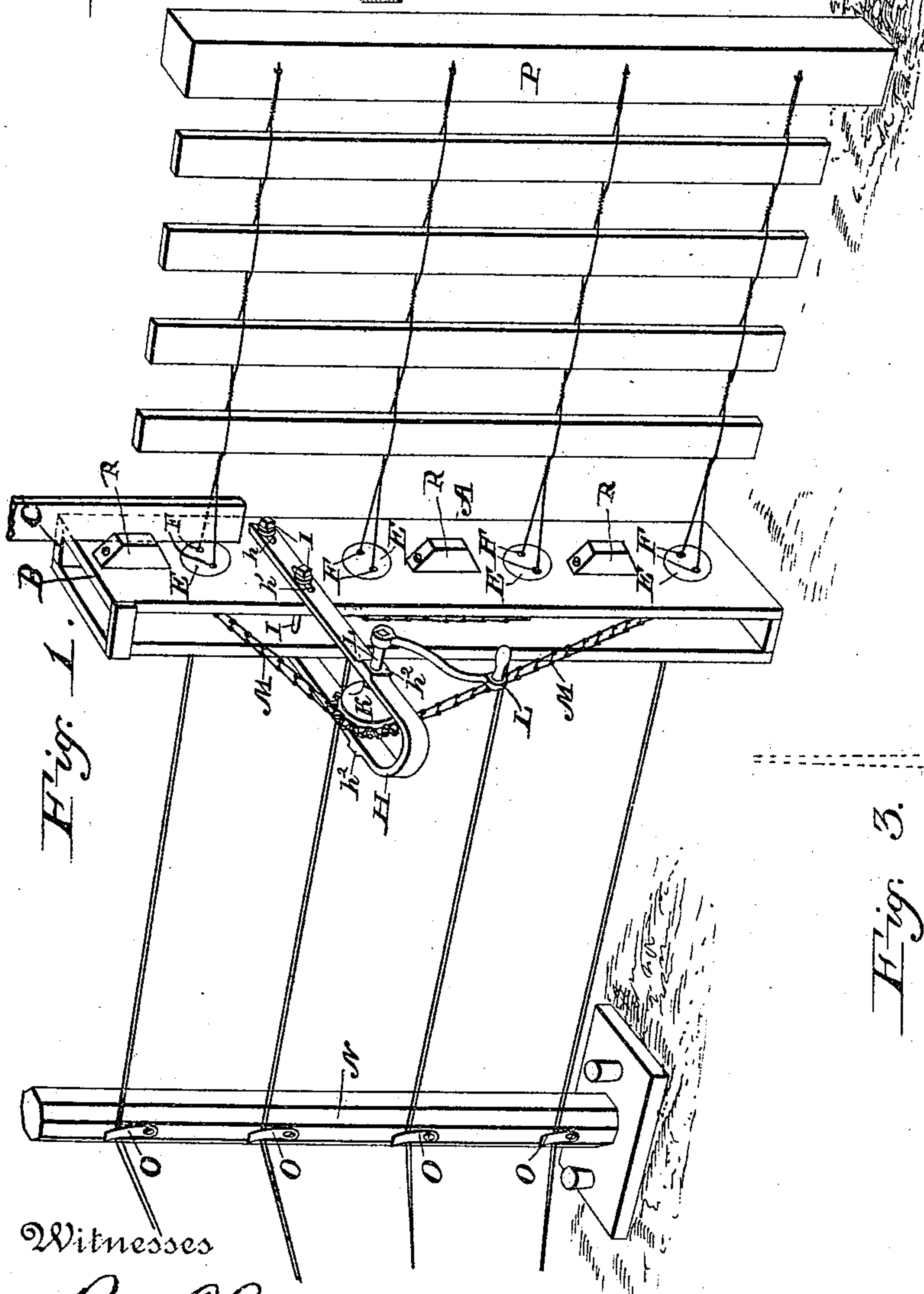


Fig. 1.

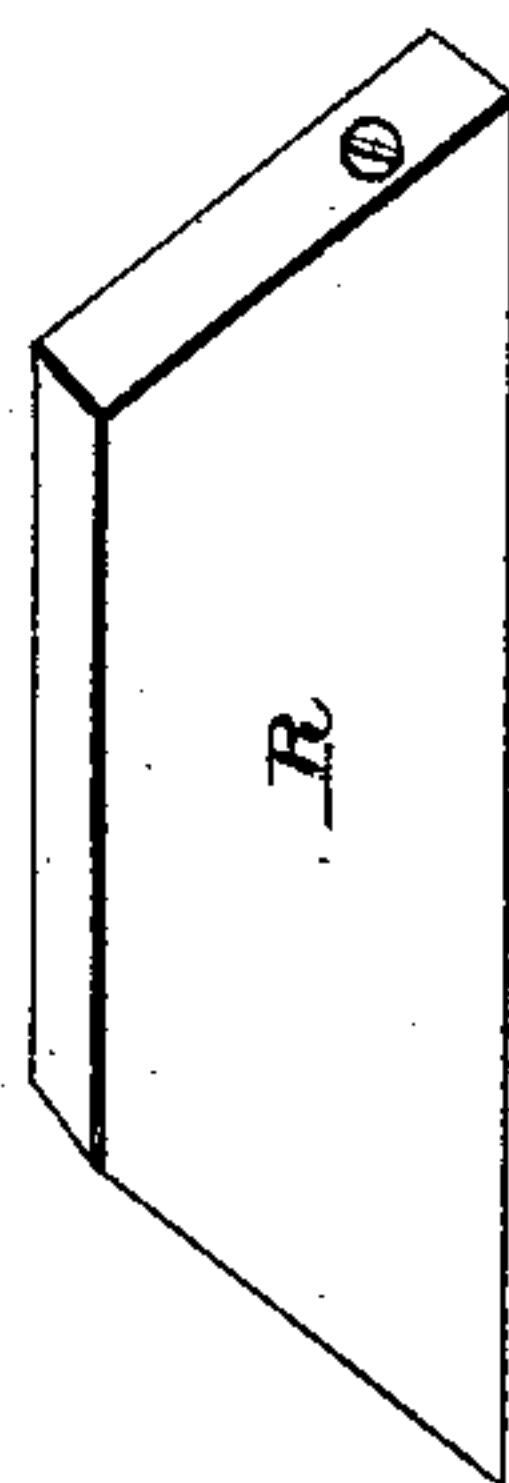


Fig. 4.

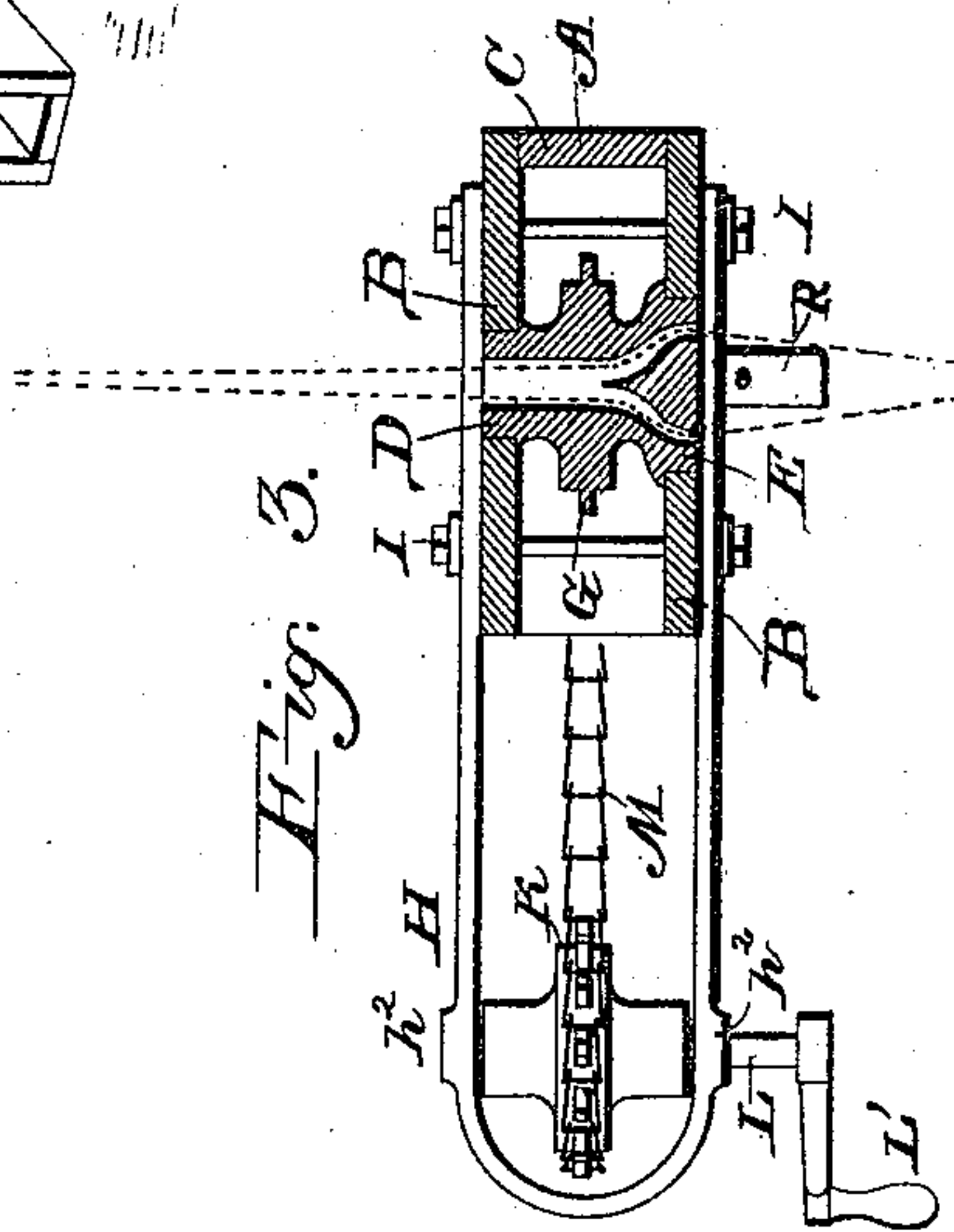


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

ELMER M. COOPER, OF CADIZ, INDIANA.

MACHINE FOR MAKING WIRE FENCES.

SPECIFICATION forming part of Letters Patent No. 355,812, dated January 11, 1887.

Application filed August 25, 1886. Serial No. 211,838. (No model.)

To all whom it may concern:

Be it known that I, ELMER M. COOPER, a citizen of the United States, residing at Cadiz, in the county of Henry and State of Indiana, have invented a new and useful Improvement in Machines for Making Wire Fences, of which the following is a specification.

My invention relates to an improvement in machines for making wire fences; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a machine embodying my improvements, and in position for use. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal transverse section. Fig. 4 is a detailed perspective view of the spacing-block. A represents a vertical box or case having the side boards, B, and the end board, C, the other end or edge of the box being left open. In the sides of the box or case are journaled a series of hollow cylindrical twisting-sleeves, D, having on one end a disk, E, provided with a pair of apertures, F. The opposite end of each sleeve is open. Formed at the center of each sleeve is a sprocket-wheel, G.

H represents a yoke-arm, which is made of a piece of strip-metal of suitable width and thickness, bent in the shape of the letter U. The extremities of the yoke are provided with open slots h , and near the said open slots are slots h' . Bolts I extend through the said slots h and h' and secure the yoke-arm to the box or case, near the upper end thereof, in a horizontal position, the said yoke-arm projecting outwardly from the open side of the box or case. Near the outer portion of the yoke-arm are joined bearings h^2 .

K represents a sprocket-wheel, which is keyed to a shaft, L, journaled in the bearings h^2 . One end of the said shaft is squared and is socketed to a crank-handle, L'.

M represents an endless sprocket-chain, which passes over the wheel K, over the outer sides of the wheels G, near the ends of the box or case, and bears against the inner sides of the intermediate wheels, G, in the box or case.

By this means it will be readily understood that the wheels K and G are connected together, so that the wheels G may be rotated by turning the crank-handle of the wheel K.

N represents a standard having tension-springs O.

On the rear side of the box or case are secured a number of space-blocks, R, which project rearwardly, and are arranged in a vertical line with the centers of the twisters. The said blocks have their upper and lower sides inclined rearwardly at suitable angles, as shown.

The operation of my invention is as follows: The wires are stretched from the post P of the fence in horizontal strands of two each, and are passed through the hollow sleeves D and the openings F, the function of the said openings being to spread the wires apart. A picket is inserted vertically between the wires and against the rear sides of the blocks R, and the crank-handle is then turned, causing the twisters to be rotated, so as to twist the wires against the rear edge of the picket. The machine is then moved forward a slight distance on the wires, and another picket is then inserted between the strands of wire. As the said picket is thrust downward it comes in contact with the rear sides of the blocks R, which latter act as cams to force the picket rearwardly against the tension of the wires and toward the adjacent picket, already in place, thus tightening the wires between the pickets and spacing the latter, as will be readily understood. The operation before described is then repeated until the entire line of fence has been constructed.

The function of the standard N and the springs or clamps O is to keep the wires stretched at the necessary tension.

Having thus described my invention, I claim—

In a machine for making fences, the combination of the box or case, the rotating twisters journaled therein and having the sprocket-wheels, the U-shaped yoke H, extending from one side of the box or case and having its arms arranged on opposite sides thereof, and provided with the longitudinal slots h , the

clamping-bolts I, extending through the said
slots and the box or case, whereby the yoke is
laterally adjustable thereon, the crank-shaft
 journaled in the said yoke and having the
5 sprocket-wheel K, and the endless chain con-
necting the sprocket-wheels, substantially as
described.

In testimony that I claim the foregoing as
my own I have hereto affix my signature in
presence of two witnesses.

ELMER M. COOPER.

Witnesses:

FRANCIS H. JOHNSTON,
OBED H. GARRETT.