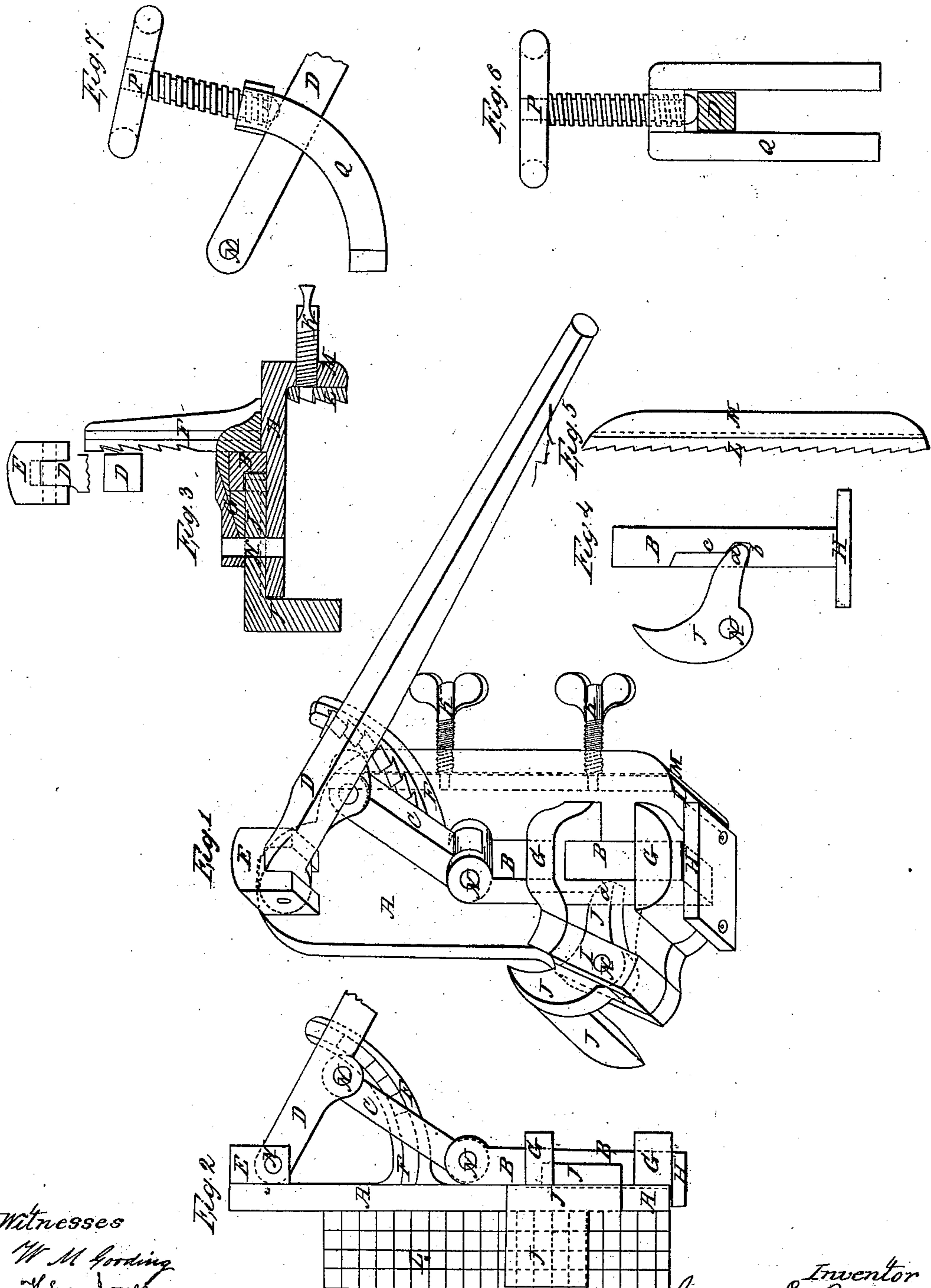


G. E. Banner, Floor Clamp.

No. 76,583.

Patented Apr. 14, 1868.



Witnesses
W. M. Gording
Henry Jones

Inventor
George E. Banner

United States Patent Office.

GEORGE E. BANNER, OF NEWARK, NEW JERSEY.

Letters Patent No. 76,583, dated April 14, 1867; antedated April 7, 1868.

IMPROVEMENT IN FLOOR-CLAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE E. BANNER, of the city of Newark, in the county of Essex, and State of New Jersey, have invented an Improved Floor-Clamp; and I do hereby declare the following to be a full and exact description of the same, reference being had herein to the drawings that accompany this specification, and which make part of the same.

My improvement consists in the manner of securing the clamp to the timber or floor-beam, and in the way in which it is, with ease and facility, released therefrom and removed for another hold.

Upon a bed-piece, A, guide-pieces, G, are secured, in which slides the main-pressure stem, B, having on its lower end a flat transverse block or foot to press against the edge of the plank, and a joint and bar, C, upon its upper end.

The joint-bar C is hinged at its upper end to a lever, D, the lever having its upper end working with a hinge-joint in the block E, which projects from the bed-piece A.

Alongside the lever D is placed a curved ratchet-bar, F, in the notches of which a projection on the side of the lever D catches to retain the pressure upon the edge of the plank while being nailed to the beam.

Upon the back of the bed-piece A, a flange, M, projects, through which pass two or more screws, K, on the ends of which screws is a plate, L, which is placed on one side of the timber or floor-beam when the clamp is in use.

Attached to the bed-plate A and the guide G is a bearing, I, in which works the jaw J, that is placed on the other side of the timber, being so formed that it will enter the wood sufficiently to prevent slipping back when the lever pressure is brought to bear on the plank.

When the lever D is brought back, drawing the stem B, the end of the jaw *a* enters an indentation, *b*, in the side of the main stem B, which releases the hold of the jaw upon the timber, and allows it to be moved back, but as soon as the lever is pressed downward, the jaw J, turning on the pin N, is forced into the side of the beam by the action of the end *a* in the decreased indentation, *c*, in the side of B, the varying thickness of beams and timbers being provided for in the shifting-screw plate L and the screws K.

What I claim, and desire to secure by Letters Patent of the United States, is—

The jaw J, the sliding bar L, and screws K, in combination with the lever D, ratchet F, joint-bar C, main stem B, with its foot H, the whole being constructed and arranged to operate substantially in the manner and for the purposes specified.

GEORGE E. BANNER.

Witnesses:

W. M. GOODING,
HENRY JONES.