

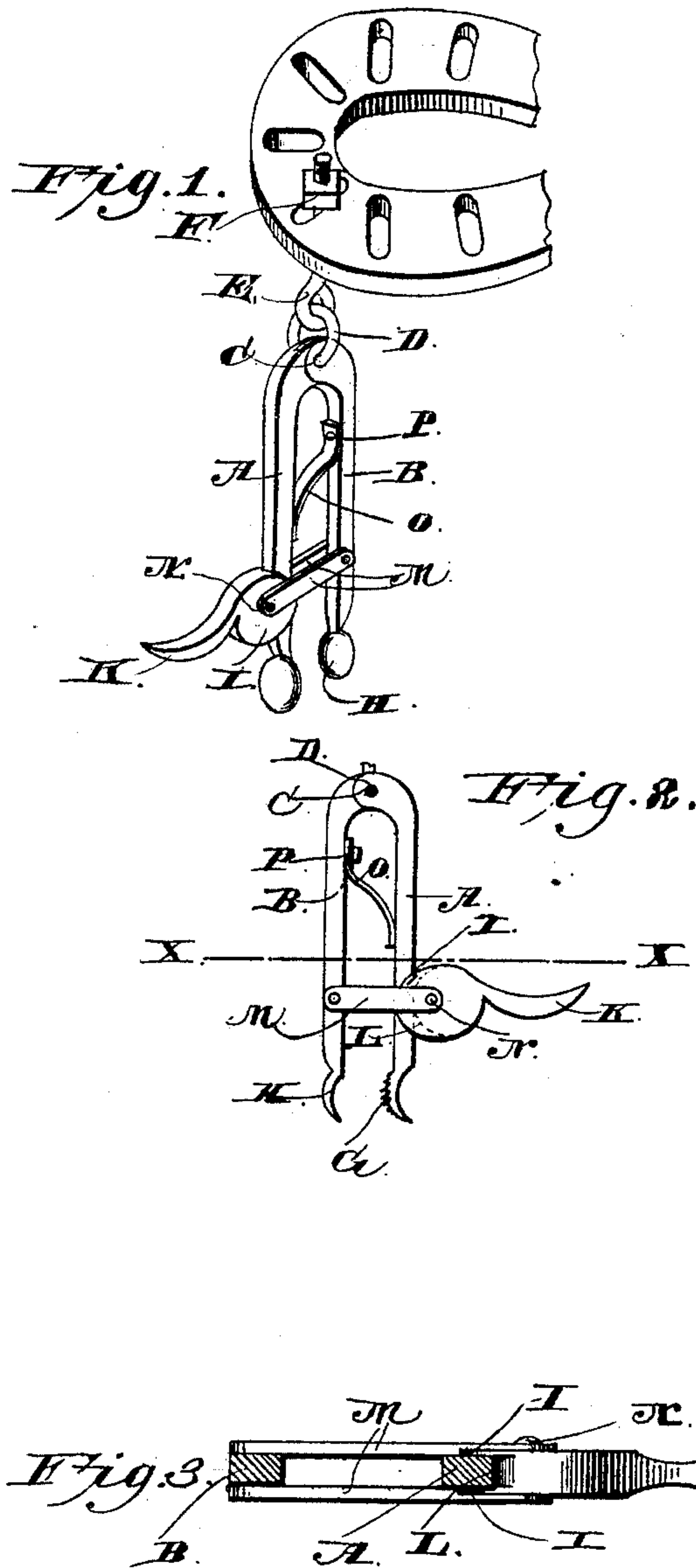
(No Model.)

S. B. ELLITHORP.

CLAMP.

No. 435,887.

Patented Sept. 2, 1890.



Witnesses

M. E. Fowler
E. S. Siggers

Inventor

Solomon B. Ellithorp

By *His Attorneys*

C. Snow & Co.

UNITED STATES PATENT OFFICE.

SOLOMON B. ELLITHORP, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO THE ELLITHORP MANUFACTURING COMPANY, OF PROVIDENCE, RHODE ISLAND.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 435,887, dated September 2, 1890.

Application filed September 11, 1888. Serial No. 285,127. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON B. ELLITHORP, a citizen of the United States, residing at Washington, District of Columbia, have invented a new and useful Improvement in Clamps, of which the following is a specification.

My invention relates to an improvement in clamps or gripping devices for lasting-machines; 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 claims.

The object of my invention is to provide a clamp or gripping device which is adapted to obtain a firm hold on the leather of the upper without marring or cutting the same, and which may be readily applied to and released from the leather, and which shall be strong and durable, simple, light, and cheap, and thoroughly efficient in operation.

In the drawings, Figure 1 is a perspective view of a portion of a templet and one of my improved clamps suspended therefrom. Fig. 2 is a detail elevation of my improved clamp. Fig. 3 is a sectional view of the same taken on the line *xx* of Fig. 2.

A B represent a pair of arms, which have their upper ends curved toward each other and provided with aligned pivotal openings C, through which is inserted a pivotal ring D, which is attached to an eyebolt E. The latter is adapted to be inserted in one of the usual radial openings of a templet that has an adjusting-nut F at its upper end which is adapted to bear on the templet, and thereby suspend the bolt and the clamping device therefrom. The lower end of the arm A is crescent-shaped to form a convex surface G on its inner side, which surface is roughened, as shown. The lower end of the arm B is likewise crescent-shaped, as at H, and has its concave side presented to the convex side G of arm A. Said concaved side of arm B is entirely smooth.

I represents an eccentric-cam, which has an arm K projecting from its outer side and has a groove L on its inner side, which is adapted to engage the outer side of arm A. Links M

are pivoted at one end to opposite sides of the arm B and have their free ends pivoted eccentrically to opposite sides of the cam by means of a pin N.

O represents a spring, which has one end secured to the inner side of arm B by a screw or rivet P, and the free end of the said spring bears against the opposing inner side of the arm A, and is thereby adapted to normally open or distend the said arms.

The operation of my invention is as follows: The edge of the leather is inserted between the concave and convex sides of the arms B A, and the cam I is partly revolved by depressing the arm K, thus causing the said cam to draw upon the links M, and consequently close the lower end of the arms B A together against the tension of the spring, and thereby clamp the lever firmly between the concave side H and the convex side or extension G. The roughened surface of the latter exerts a maximum degree of friction upon the leather without in any wise marring or injuring the same and causes the leather to be held with sufficient firmness between the lower ends of the clamping-arms.

In order to release the leather it is only necessary to elevate the arm K and cause the cam to release arm A, when the spring instantly opens the arm, as will be readily understood.

Having thus described my invention, I claim—

1. In a clamp for lasting-machines, the combination of the arms A B, pivoted together at one end, the cam bearing against one of the arms, and the links pivotally connected to the other arm and eccentrically connected to the cam, substantially as described.

2. The combination, in a clamp for lasting-machines, of the arm A, having the convex extension G at its lower ends, said extension having its convex side roughened, the arm B, pivoted to arm A and having the concave extension H at its lower end, the spring to open the said arms, the links attached to one arm, and the cam bearing on the other arm and eccentrically connected to the links, substantially as described.

3. In a clamp for lasting-machines, the combination of the pivoted arms A B, the links pivoted to one of said arms, and the cam pivoted between the free ends of said links and
5 grooved to engage the side of the adjacent pivoted arm, substantially as set forth.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in presence of two witnesses.

SOLOMON B. ELLITHORP.

Witnesses:

J. H. SIGGERS,

CHARLES W. HANDY.