

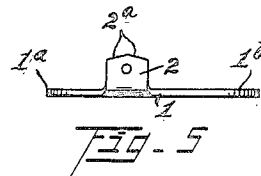
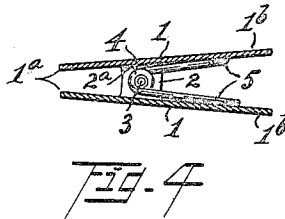
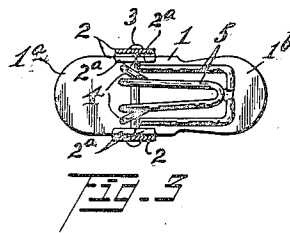
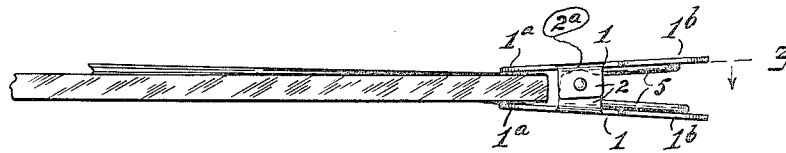
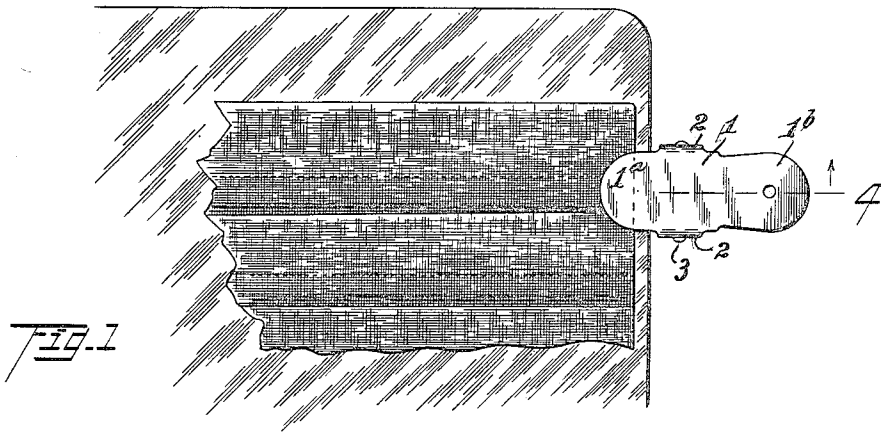
L. E. LOCKE.

SPRING CLAMP.

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1,045,860.

Patented Dec. 3, 1912.



Witnesses:

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LYDIA E. LOCKE, OF CLEVELAND, OHIO.

SPRING-CLAMP.

1,045,860.

Specification of Letters Patent.

Patented Dec. 3, 1912.

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To all whom it may concern:

Be it known that I, LYDIA E. LOCKE, a citizen of the United States, residing in the city of Cleveland, in the county of Cuyahoga and the State of Ohio, have invented a new and useful Spring-Clamp, of which the following is a specification.

My invention relates to improvements in spring clamps, and is particularly designed and adapted for use in connection with the lap-boards employed in holding cloth while sewing, basting, stretching, ripping, or sponging the same.

The primary object of the invention is to provide a generally improved spring clamp of this class of exceedingly simple, cheap, and efficient construction, better adapted to its intended purposes than any other device of the same class with which I am acquainted.

A further object of the invention is to provide improved clamping jaws having broad bearing surfaces adapted to take over and engage the marginal edges of the lap-board and material to be wrought upon, whereby the latter is securely held and maintained in proper position without in any way injuring the same.

A still further object of the invention is to provide means whereby the clamping members will be stopped at certain predetermined points in their opening and closing movements, and whereby the clamping jaws will be maintained in a substantial parallel position with respect to each other.

With the above-mentioned and other ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings, forming a part of this specification, Figure 1, is a top plan view of the improved clamp in its operative position applied to the marginal edge of a lap-board and the material to be wrought upon. Fig. 2, a side or edge view of the same. Fig. 3, a horizontal sectional view of the improved clamp taken on line 3, of Fig. 2. Fig. 4, a longitudinal vertical sectional view of the same taken on line 4, of Fig. 1. Fig. 5, a detail view of one of the clamping members detached and illustrating more clearly the stops on the bearing lugs thereof for coöperating with the opposed clamping member, whereby the

clamping members are stopped at certain predetermined points.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The improved clamping device comprises a pair of clamping members 1, cut or stamped from suitable sheet metal, and provided at the sides with integral bearing lugs 2, the latter being bent to substantially right angles to the clamping members 1, and extending toward and overlapping each other and provided with bearing openings adapted to receive and contain a pivot pin 3.

As a means for moving the clamping jaws 1^a, toward each other as well as giving said jaws the proper clamping action when mounted or secured, as illustrated in Figs. 1, and 2, of the drawings, a spring member consisting of coils 4, and oppositely disposed loop members 5, is mounted and interposed between the clamping lever member 1^b, the loops 5, being mounted upon the pivot pin 3, whereby the spring member is securely maintained in proper relative position, as illustrated most clearly in Figs. 3, and 4, of the drawings. As a means for stopping or holding the clamping members at certain predetermined points or positions, and particularly as a means for holding the clamping jaws 1^a, in an approximately parallel position when the clamping jaws are removed, as illustrated in Fig. 4, of the drawings, the bearing lugs 2, of one of the clamping members are beveled or inclined forming stops 2^a, to engage and coöperate with the adjacent or opposed clamping member, whereby a limited movement only will be given to the clamping members 1, in the opening and closing movements of the same.

It will also be observed that a broad bearing surface is provided by the clamping jaws 1^a, whereby to securely engage the adjacent clamped parts and prevent injury to the latter.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of my invention will be readily understood.

Having thus described an embodiment of my invention what I claim and desire to secure by Letters Patent is,—

1. In a spring clamp, a pair of flat spring actuated clamping members substantially spaced from each other and each provided with a pair of bearing lugs pivotally con-

nected to each other, the bearing lugs of one of said clamping members being mounted within the bearing lugs of the opposite clamping member and being provided with
5 stops adapted to contact with the latter at certain predetermined points, whereby the opening and closing movements of said clamping members are limited in extent.

2. In a spring clamp, a pair of flat spring
10 actuated clamping members substantially spaced from each other, and provided with

pivotally connected bearing lugs, the lugs of one of said members resting within the lugs of the other and the interior lugs having stops adapted to hold the jaws of said
15 clamping members in spaced relation to each other when said clamping members are not in use.

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