

(No Model.)

A. EKSTROM.

MACHINE FOR MAKING METALLIC LATHING.

No. 385,663.

Patented July 3, 1888.

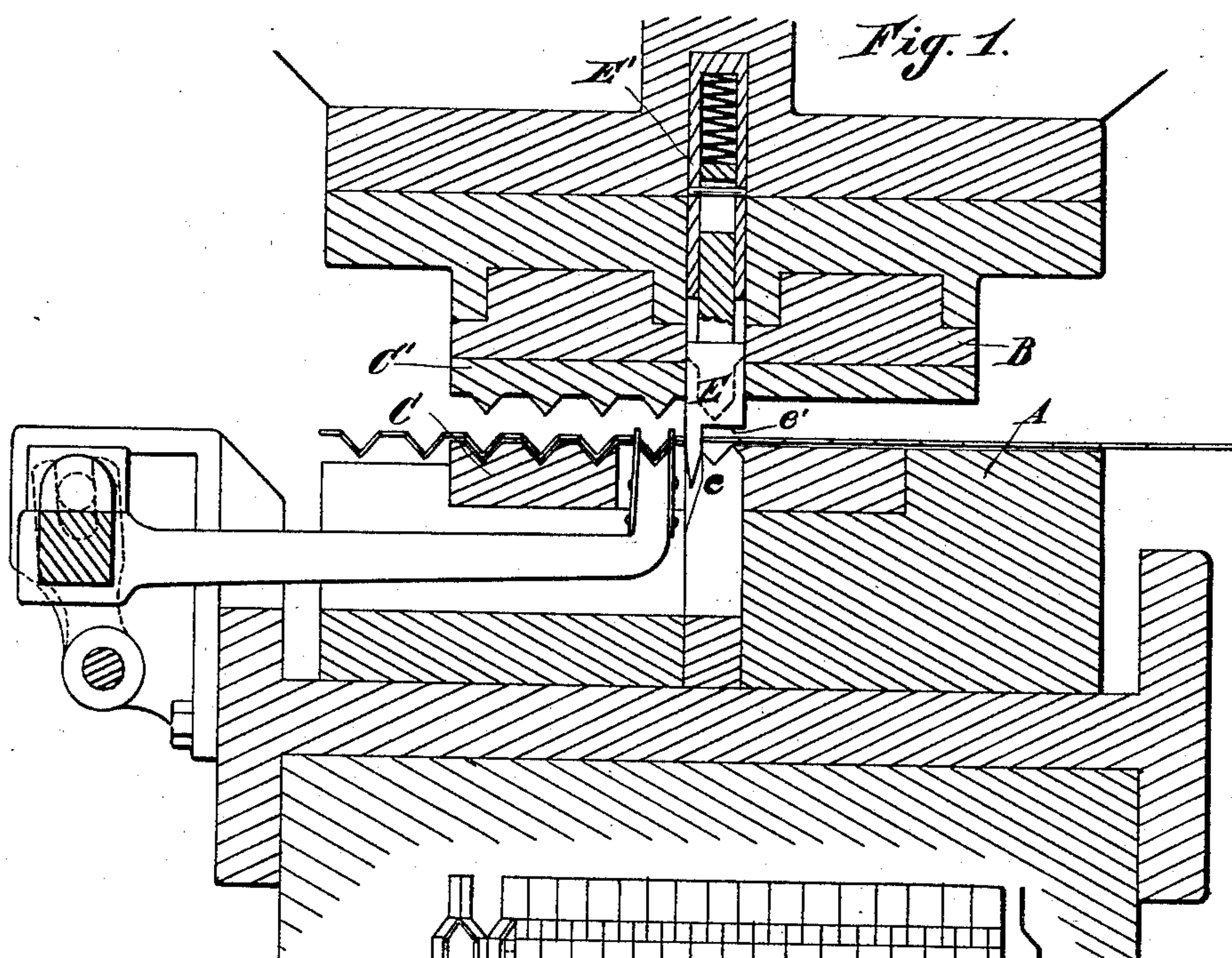
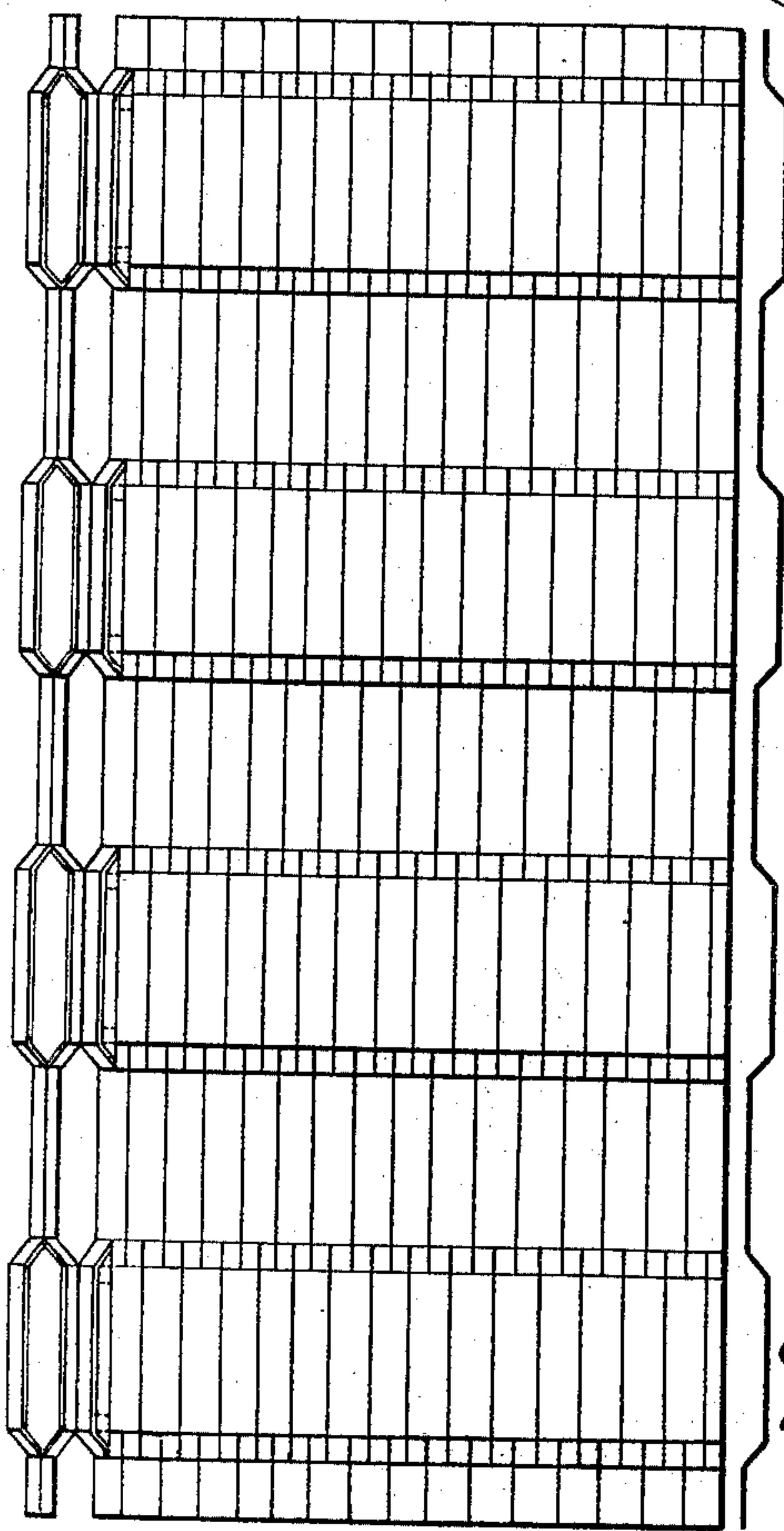


Fig. 2.



WITNESSES

John E. Miles.
W. B. Dogherty

INVENTOR.

Anton Ekstrom.
By W. W. Feggs,
Attorney.

UNITED STATES PATENT OFFICE.

ANTON EKSTROM, OF DETROIT, MICHIGAN, ASSIGNOR TO HENRY C. HODGES AND CHARLES C. HODGES, OF SAME PLACE.

MACHINE FOR MAKING METALLIC LATHING.

SPECIFICATION forming part of Letters Patent No. 385,663, dated July 3, 1888.

Application filed February 17, 1888. Serial No. 264,330. (No model.)

To all whom it may concern:

Be it known that I, ANTON EKSTROM, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Metallic-Lath Machinery; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention consists of the combinations of devices and appliances hereinafter specified, and more particularly pointed out in the claims.

In the drawings, Figure 1 represents a cross-sectional view of a part of an opening-out machine illustrating my invention. Fig. 2 is a plan view of a slitted and corrugated sheet which has been partially opened out by the opening-out machine, and showing the locality where my improvement is employed.

This invention is designed as an improvement upon what is termed the "opening-out machine" in the manufacture of metallic lathing—such as is shown and described in Letters Patent to Israel Kinney, No. 312,864, dated February 24, 1885—the said machine, with the exception of my improvement, being illustrated and described in an application for Letters Patent by Jefferies R. Branden, filed of even date herewith, Serial No. 264,343. In the said Branden opening-out machine the metal is fed forward by a forked arm which engages the metallic strip that has just been folded by the folding-dies and moves it forward one space, the design being to leave the next adjacent strip in exact position to be folded by the next descent of the folding-dies. In practice, however, it has been found difficult to properly locate the said strip by the said forked feeding-arm, and it is the purpose of my invention to produce mechanism for exactly lining the new strip to be folded by the folding-dies.

In carrying out my invention, A represents the lower platform and B the upper platform; C and C', the lower and upper folding-dies, respectively.

All the foregoing mechanism and all the gen-

eral features of the machine are the same as described and shown in the said application of Branden, and are not therefore again reproduced.

I will now proceed to describe the particular feature of my invention.

E is what I term a "liner." It is provided with a finger, *e*. There may be any number of these liners arranged across the platen. The purpose of these liners is as follows: When the feeding mechanism has fed the sheet forward one space it may or may not be in exact position to receive the next action of the folding-dies; but as the platen descends the fingers *e* will pass into the opening between the last slit that was folded and the new slit to be folded, and will adjust the sheet to its exact particular position for the action of the folding-dies. In this way any slight irregularity in the feeding mechanism or any slight distortion of the sheet is compensated by these liners, which not only adjust the sheet to its proper position, but hold it in that position during the action of the dies. These liners may be made stationary; but I prefer to provide each liner with a spring-cushion, *E'*, so that as the dies separate, the fingers may be projected well beneath the platen, so as not only to be in position to enter and adjust the sheet prior to the dies coming together, but to serve also to prevent the sheet from lifting as the dies separate, which it might do in some cases by reason of the metal clinging to the dies.

Each liner is provided with a ledge, *e'*, which projects out laterally from the base of the finger *e*. It extends across the strip that is to be folded, and holds it against displacement as the dies are coming together. The metal is thus prevented from creeping out at one side or the other—a tendency which is always present when thin sheet metal is being thus acted upon.

Having thus described my invention, what I claim is—

1. In an opening-out machine for opening out and finishing metallic lathing, &c., the combination, with the folding-dies, of lining-fingers *e*, said fingers connected with a traveling platen and adapted upon its descent to enter between the last-folded strip and the strip next to be folded, and adjust and hold the sheet

in proper position for the folding-dies, substantially as and for the purposes described.

2. In an opening-out machine for opening out and finishing metallic lathing, &c., the
5 combination, with the folding-dies, of lining-fingers *e*, connected with the traveling platen, and in connection with said liners springs for projecting the liner beneath the platen and serving as cushions against which the liners
10 may react as the dies come together, substantially as described.

3. In an opening-out machine for opening out metallic lathing, the combination, with the

folding-dies, of a finger adapted to grasp and fix in exact particular position the metal for
15 the dies, said fingers provided with a projecting ledge adapted to extend across the strip to be folded, thereby holding the same against displacement as the dies come together, substantially as described. 20

In testimony whereof I sign this specification in the presence of two witnesses.

ANTON EKSTROM.

Witnesses:

M. B. O'DOGHERTY,
JOHN E. WILES.