

H. MARTYN.
DIES FOR STAMPING.

No. 179,208.

Patented June 27, 1876.

Fig. 1.

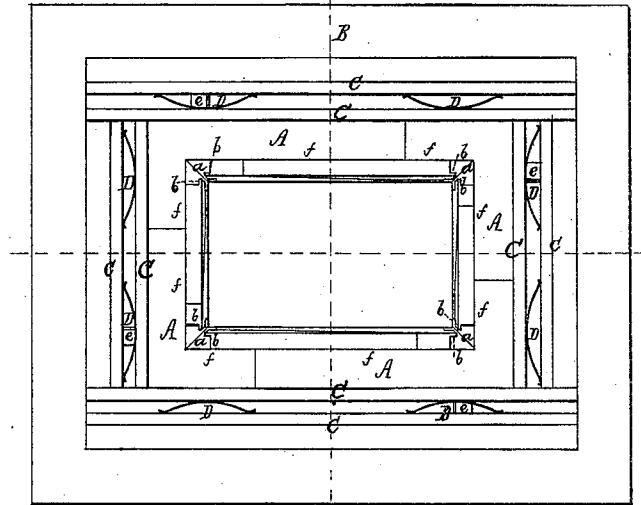


Fig. 2.

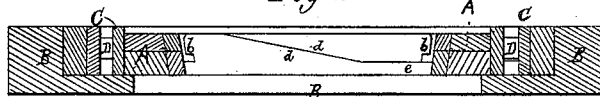


Fig. 3.

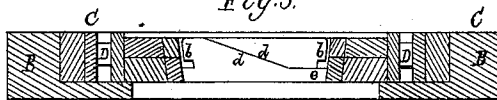
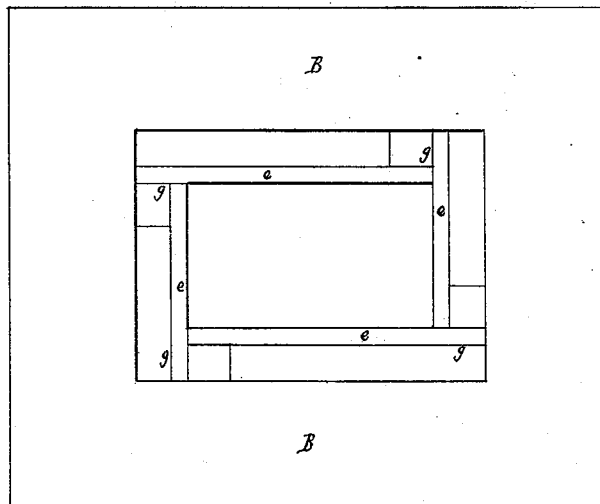


Fig. 4.



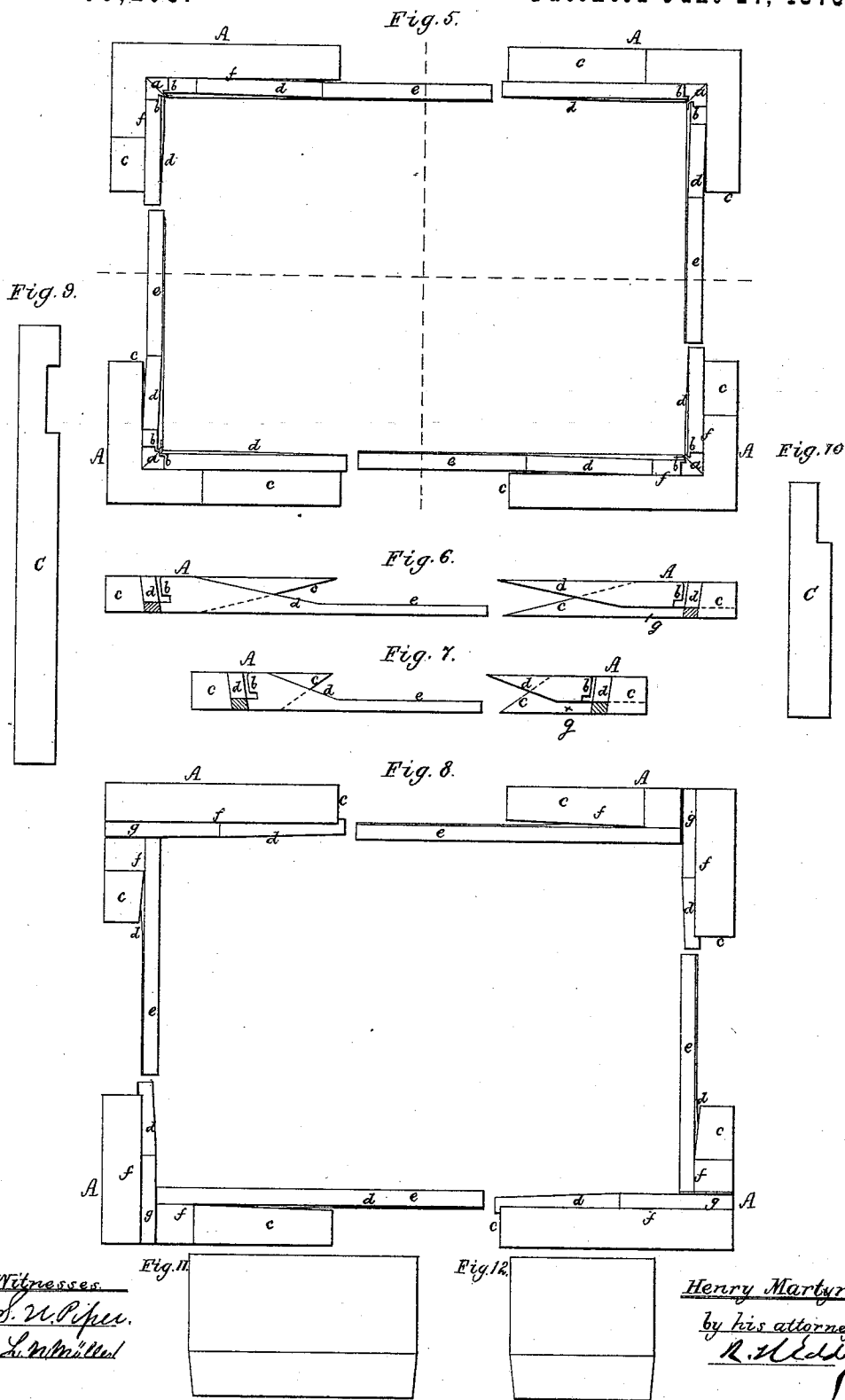
Witness
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Henry Martyn
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UNITED STATES PATENT OFFICE.

HENRY MARTYN, OF EAST MEDFORD, MASSACHUSETTS.

IMPROVEMENT IN DIES FOR STAMPING.

Specification forming part of Letters Patent No. **179,208**, dated June 27, 1876; application filed April 5, 1876.

To all whom it may concern :

Be it known that I, HENRY MARTYN, of East Medford, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Dies or Mechanism for the Manufacture of Boxes or Pans from Sheet Metal or Material; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a longitudinal section, and Fig. 3 a transverse section, of a set of expansive dies and die-carrier of my improved kind. Fig. 4 is an under-side view of such. Fig. 5 is a top view of the series of expansive dies apart from one another, Figs. 6 and 7 being sectional views of them. Fig. 8 is a bottom view of them. Figs. 9 and 10 are side views of the longitudinal and transverse bars used in the carrier, and with the expansive die. Fig. 11 is a side view, and Fig. 12 an end view, of the male die or plunger.

The female of the said dies is provided with corner recesses *a* and lips *b* thereto, to turn and fold the sheet of metal at the corners, and upon the sides or ends or bottom of the pan, box-body, or cover, and is composed of a series of angular sections, *A A A A*, constructed or scarfed and arranged to overlap one another, so as to form joints oblique to the direction of movement of the male die, in such female die.

In the drawings each section *A* is shown as provided with two wedged portions or scarfs, *c d*, to each of its arms *f f*, and also with a tongue, *e*, projecting from one of the inner scarfs *d* of one of said arms. Furthermore, each section has a groove, *g*, carried through it, as shown, to receive the tongue of another section, all being as represented. The sections so made and arranged, as represented in the drawings, are placed within a frame or carrier, *B*, formed as shown, and between

them and the said carrier several sets of separate bars, *C C C*, are disposed in manner as shown; springs *D D D D* being also arranged between such bars, so as to press the sections together, and allow them to move asunder under the action of the male die. By having the sections scarfed upon one another they can spread apart while in use without causing vertical creases or grooves in the pan or box while the metal or material to compose it may be in the act of being forced through the female die. The separate bars make box-bodies, pans, or covers of different sizes, to be made with the same sectional female die, as by removing more or less of the said bars from the carrier the sections may be expanded to a greater extent, so as to be capable of making larger articles than when all the bars are in place.

I do not herein claim a sectional expansive die provided with corner lips and folding-cavities, and having the sections to abut against each other, with joints at right angles to them.

I claim as my invention—

1. For the purpose set forth—viz., the making of boxes or pans—a sectional female die, having each of its sections scarfed upon those next to it.

2. Each section *A*, provided with the two scarfs *c d* to each of its arms *f*, all substantially as shown and described.

3. Each section, provided with the two scarfs *c d* to each arm *f*, and with the tongue *e* and groove *g* arranged with it, as set forth.

4. The combination of the series of separate bars *C* with the carrier *B* and the expansive sectional female die *A A A A*, all being arranged and provided with springs *D*, essentially as specified.

HENRY MARTYN.

Witnesses:

R. H. EDDY,
J. R. SNOW.