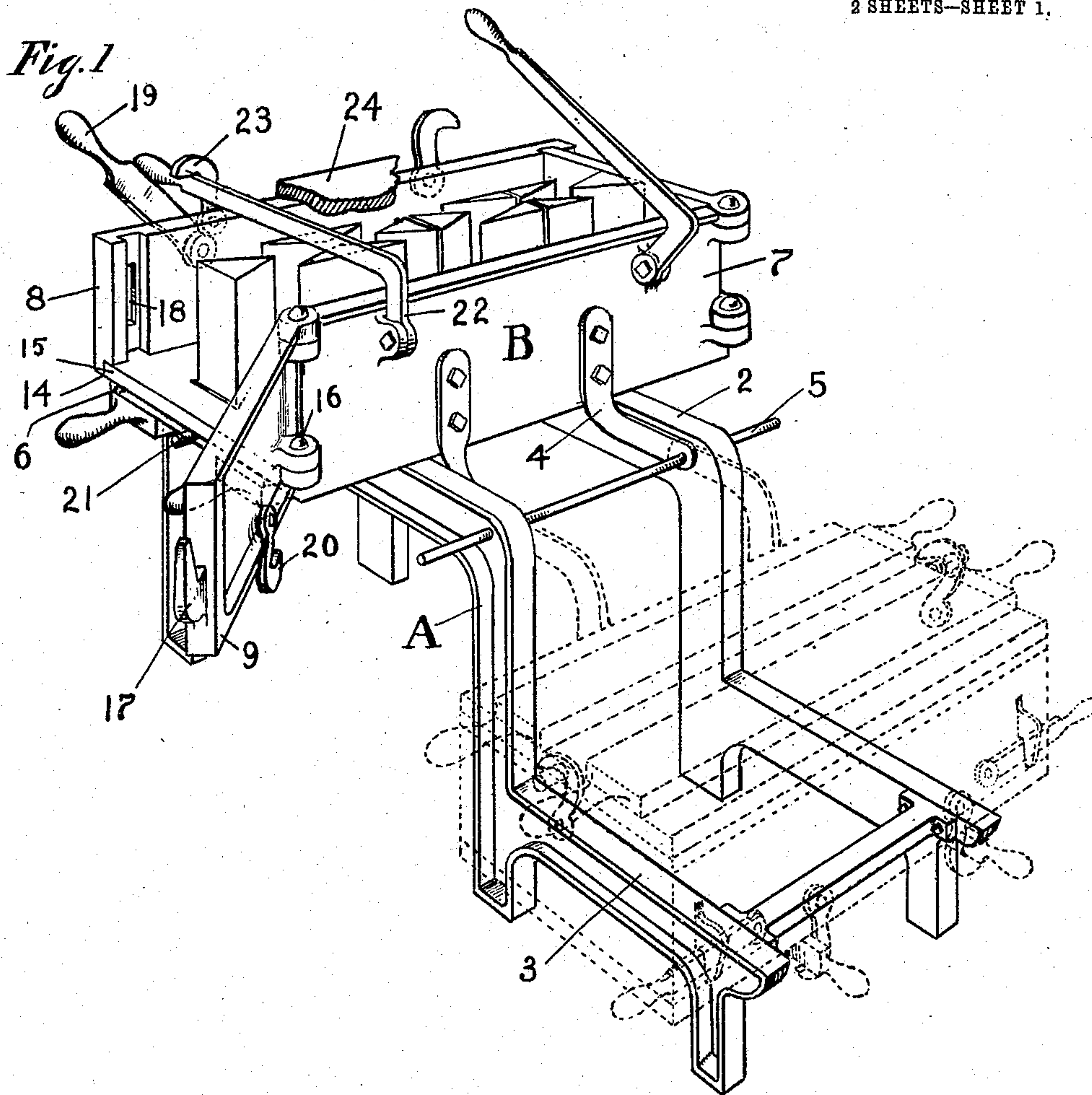


P. A. LAWIN.
CEMENT BLOCK MACHINE.
APPLICATION FILED JUNE 30, 1906.

908,018.

Patented Dec. 29, 1908.

2 SHEETS—SHEET 1.



Witnesses
George Voelker
Anna J. Madden

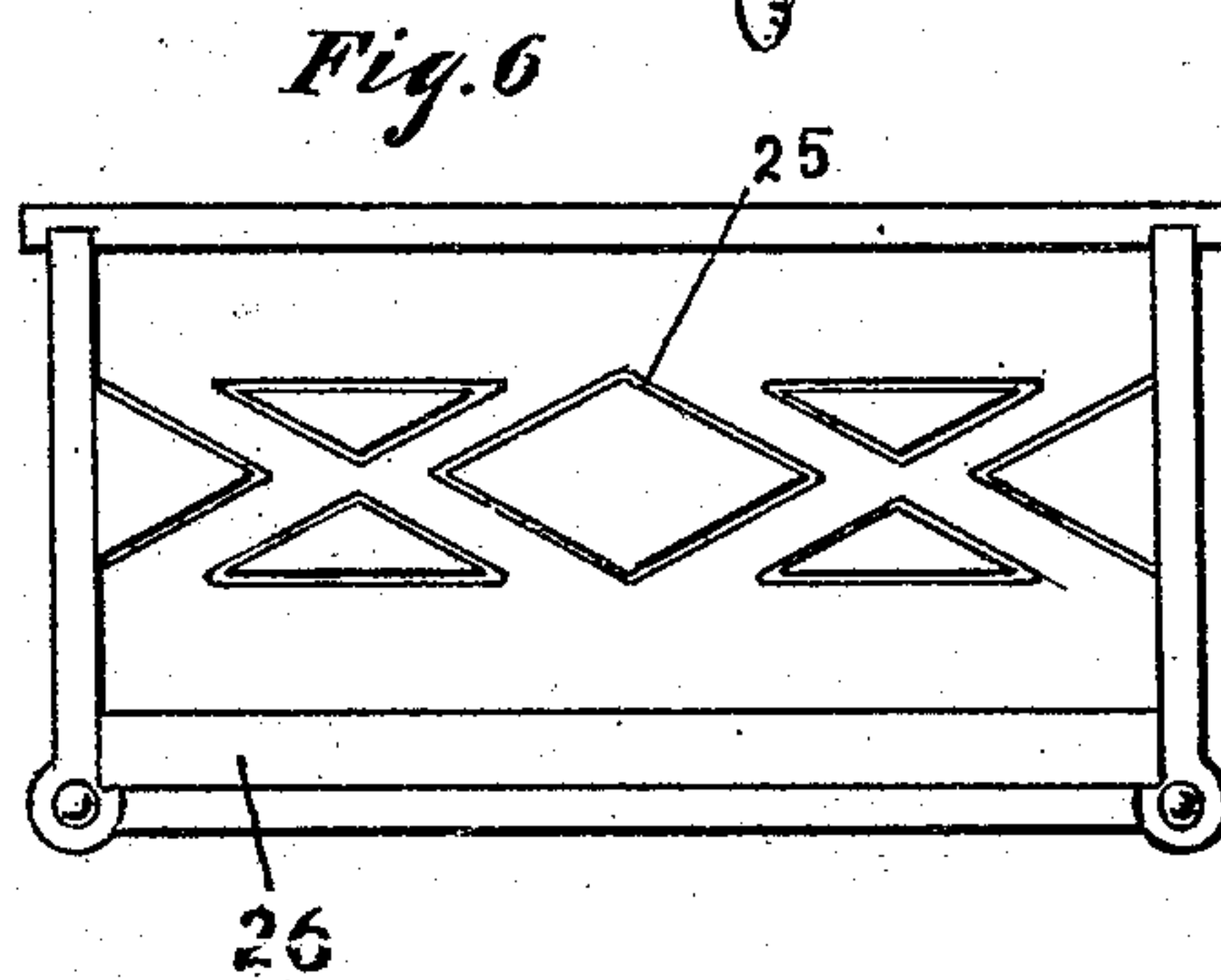
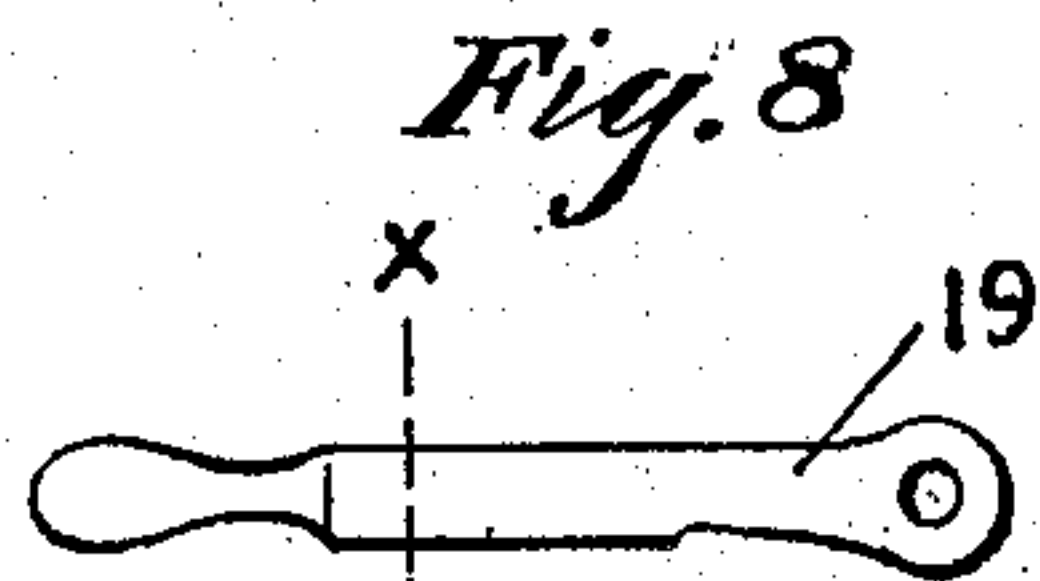
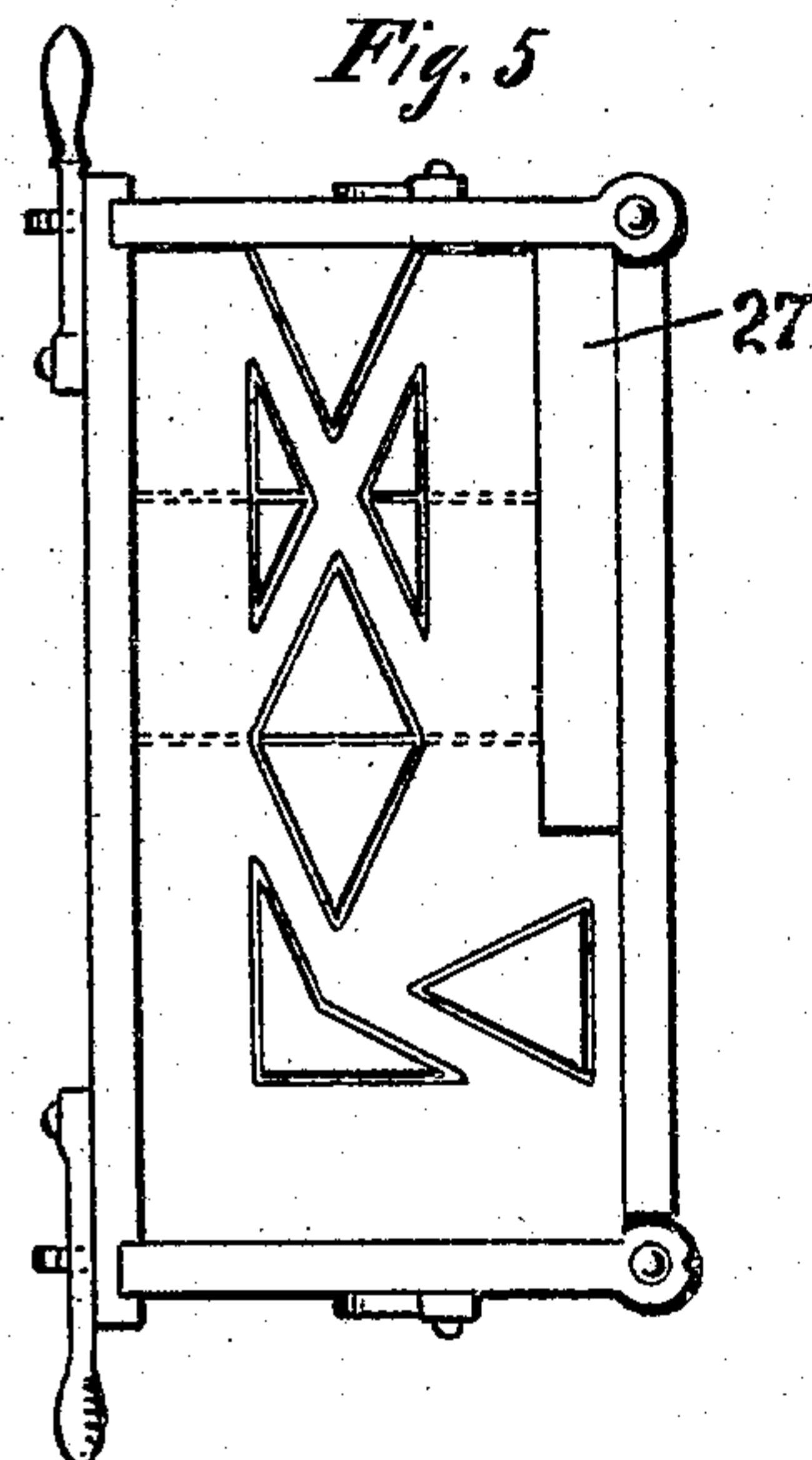
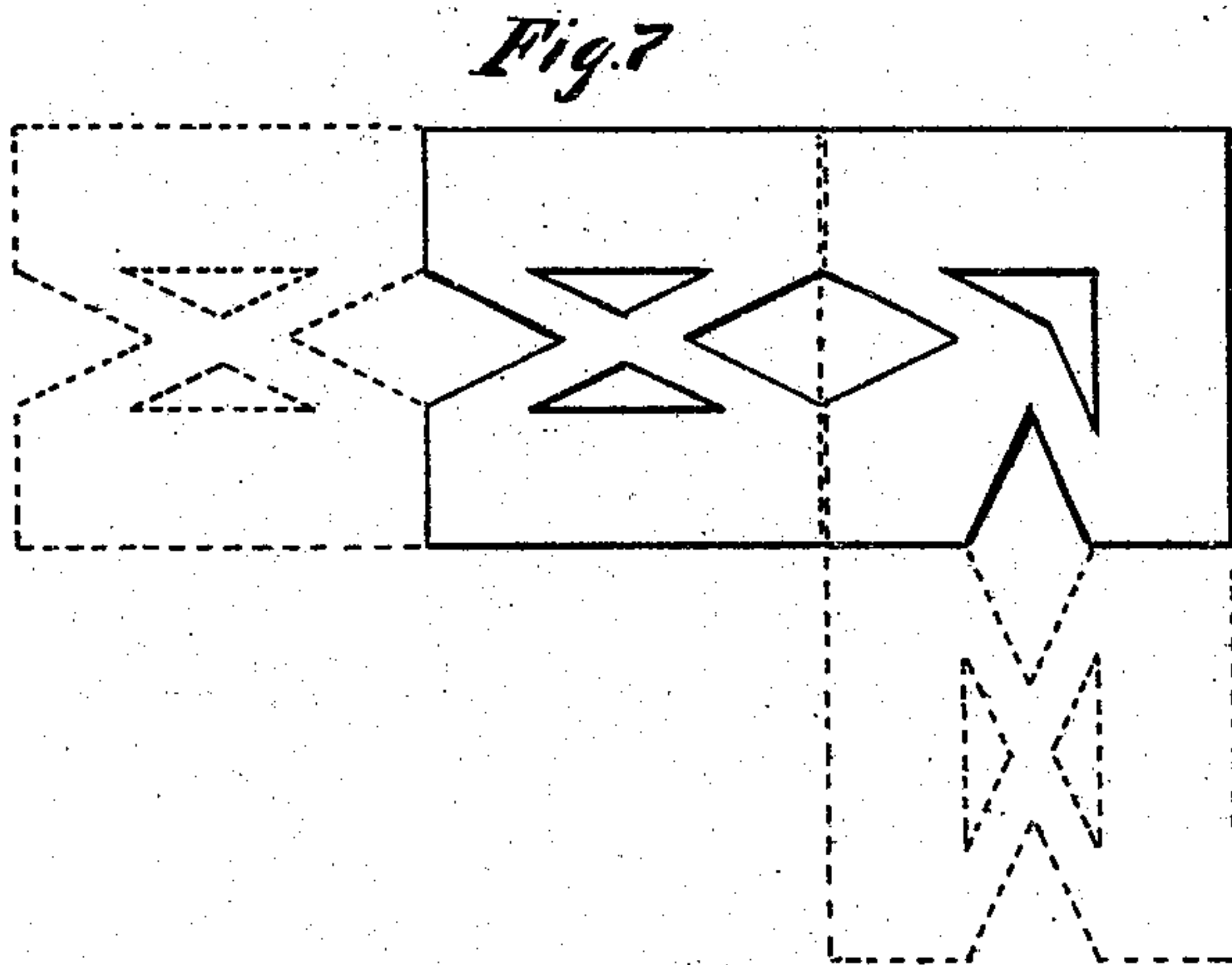
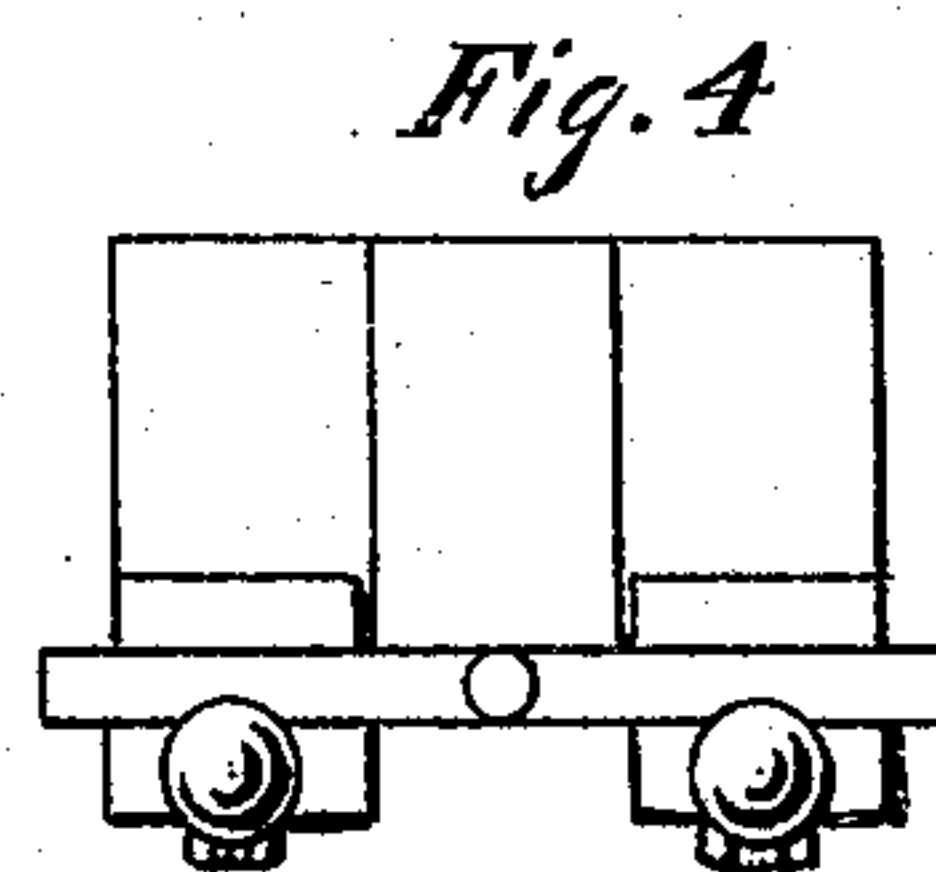
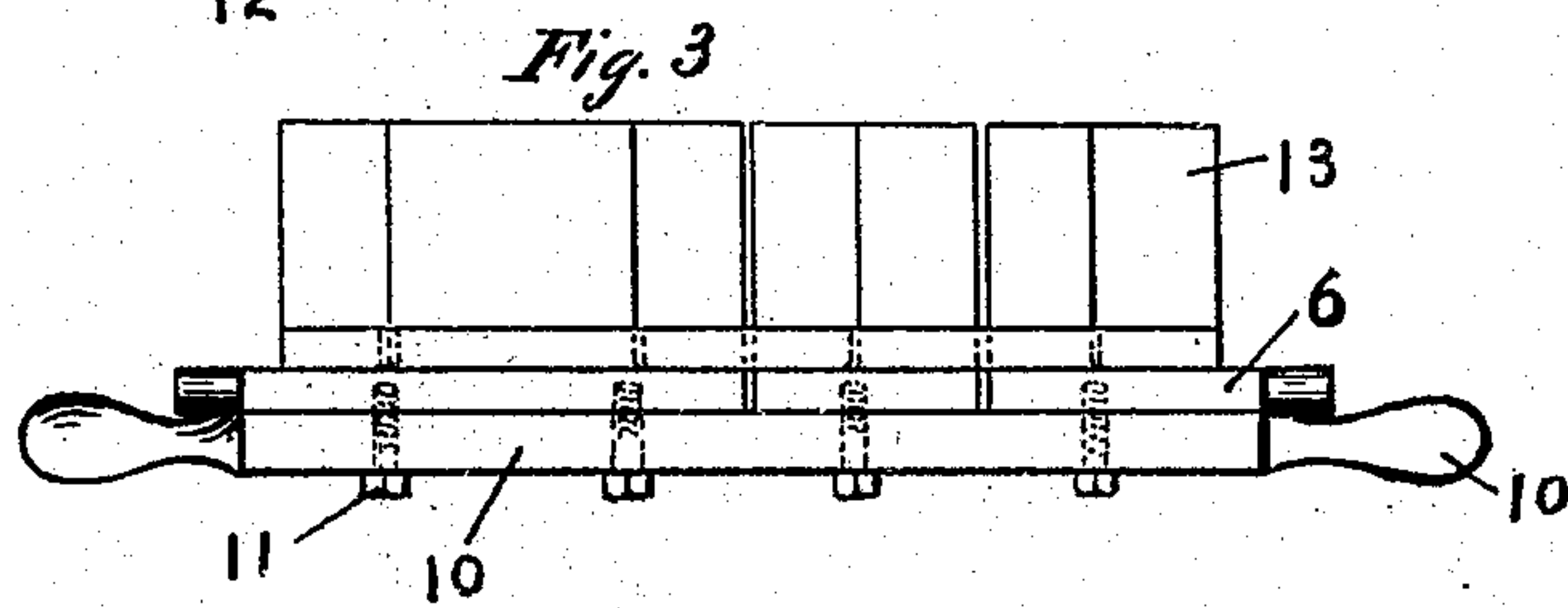
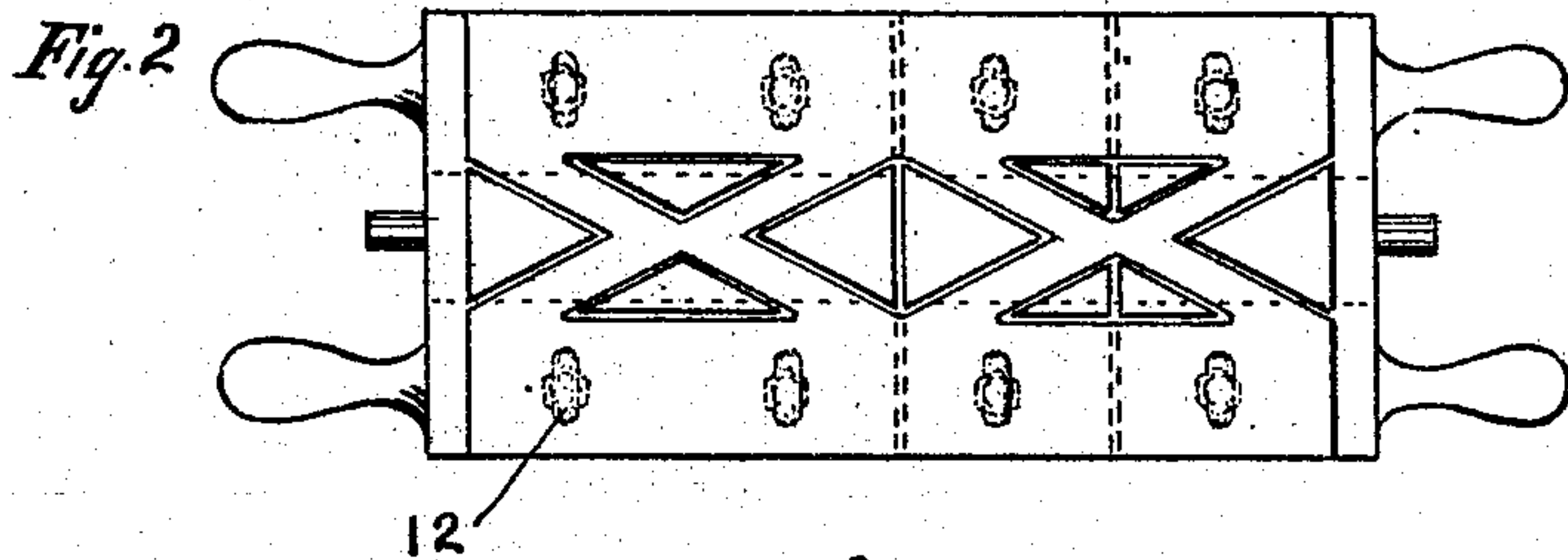
Inventor
Paul A. Lawin
by Lothrop Johnson
his Attorneys

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UNITED STATES PATENT OFFICE.

PAUL A. LAWIN, OF LONG PRAIRIE, MINNESOTA.

CEMENT-BLOCK MACHINE.

No. 908,018.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed June 30, 1906. Serial No. 324,158.

To all whom it may concern:

Be it known that I, PAUL A. LAWIN, a citizen of the United States, residing at Long Prairie, in the county of Todd and State of Minnesota, have invented certain new and useful Improvements in Cement-Block Machines, of which the following is a specification.

My invention relates to improvements in apparatus for molding cement building blocks whereby an improved form of block is obtained and the block is more easily and quickly molded than with the ordinary construction.

To this end my invention consists in the features of construction and combination hereinafter particularly described and claimed.

In the accompanying drawings forming part of this specification, Figure 1 is a perspective view of my invention; Fig. 2 is a top view of the bottom plate of the mold; Figs. 3 and 4 are side and end views respectively of the same; Fig. 5 is a top view of the mold box shown arranged for molding a ten inch corner block; Fig. 6 is a similar view with the locking levers removed and shown arranged to mold a ten inch building block; Fig. 7 is a detail illustrating a series of cast blocks, Fig. 8 is a detail of a locking lever forming part of the invention, and Fig. 9 is a cross section on line $x-x$ of Fig. 8.

In the drawings A represents the framework constructed to constitute an upper shelf 2 and a lower shelf 3.

B represents the mold box, the inner side of which has hinge support upon the frame by means of arms 4 pivoted upon a rod 5 extending through the sides of the frame. The mold box consists of a bottom plate 6, side walls 7 and 8, and end walls 9, the bottom and walls being unconnected. The bottom plate 6 is made up of sections, as shown in Fig. 2, said sections being adjustably connected with the handle bars 10 by means of bolts 11 extending through said bars and into transverse slots 12 in the bottom plate. The sections of the plates 6 carry core plugs 13. The side walls are formed in their lower ends with grooves 14 to receive the edges of a stripper plate 15, as hereinafter pointed out. The end walls 9 have hinge connection 16 with the inner wall 7 and are provided on their free ends with hooks 17 adapted to extend through slots 18 in the ends of the outer side walls and to receive locking levers 19.

The ends also carry hinged hooks 20 adapted to interlock with the pins 21 carried by the ends of the bottom plate 6. Hinged to the inner side wall 7 are bent levers 22 which cooperate with hooks 23 carried by the outer wall. These bent levers tend to hold the top plate or board 24 in position covering the mold box.

In operation the bottom plate 6 will be placed upon the upper shelf of the frame and the stripper of board placed upon it, the stripper of board being formed with openings 25 to receive the core plugs. The sides and ends will then be closed against the bottom plate and stripper plate, the levers 19 and hooks 17 being interlocked and the hinged hooks 20 carried by the ends being interlocked with the pins 21. The mold box will then be filled with the cement or other material forming the block which will fill the places between and around the core plugs. The board 24 will then be placed upon the top of the mold box and the bent levers 22 turned down over said board and interlocked with the hooks 23. The entire mold box will then be turned into the dotted line position shown in Fig. 1 resting in inverted position upon the lower shelf of the frame. The levers 22 will then be disconnected from the hooks 23, the levers 19 from the hooks 17, and the hooks 20 from the pins 21. The bottom board which is now in the upmost position will then be lifted from the mold box by its handles, the stripper plate being also removed and the sides of the mold box turned away from the block upon the hinges 16. The block will then rest upon the board 24 when it can be lifted from the shelf and the molding box turned back upon its hinges to the upper shelf and arranged to receive cement for another building block.

In Fig. 5 I show a strip 27 to be inserted in the mold box to assist in forming a ten inch corner building block. Where the strip 27 is used the adjacent sections are adjusted to stand midway between the strip 27 and the opposite wall and a corner section is placed in the opposite end of the box.

In Fig. 6 I show a strip 26 inserted the entire length of one side of the box to form a ten inch main building block. Here all the sections of the block are adjusted to stand half way between the strip and the opposite side wall. To make a twelve inch

building block the strip 26 will be removed and the sections adjusted to bring the core plugs in the center of the mold box.

Among the most important features of my invention is the arrangement of core plugs which, as shown in the drawings, overlap, thus a section through the block at any point will cut one or more of the openings formed by the core plugs. These openings overlapping as they do form a continuous line of insulation against cold, etc. extending throughout the length of the wall.

I claim:—

15 1. An apparatus of the class described comprising in combination a frame having upper and lower shelves, a mold box, hinged end walls for said box, a removable bottom, interlocking connection between said end
20 walls and bottom, a stripper plate arranged upon said bottom, plugs carried by said bottom and extending through said stripper plate, a covering plate, means securing said covering plate in position and a swing con-

nection between said mold box and said 25 frame intermediate of said shelves whereby said box may be turned from the upper to the lower shelf with said covering plate in contact with said lower shelf.

2. An apparatus of the class described 30 comprising in combination a frame, a mold box, a swing connection between one side of said box and said frame, hinged end walls for said box, a removable bottom, interlocking connection between said ends and 35 bottom, a stripper plate arranged upon said bottom, core plugs carried by said bottom and extending through said stripper plate, a covering plate, and arms hinged to one side of said box, said arms extending over said 40 covering plate, and means interlocking said arms with the opposite side of said box.

In testimony whereof I affix my signature in presence of two witnesses.

PAUL A. LAWIN.

Witnesses:

H. S. JOHNSON,

A. I. MADDEN.