

No. 858,480.

PATENTED JULY 2, 1907.

A. I. SPRAGUE.
HOLLOW CONCRETE WALL MOLD.
APPLICATION FILED MAR. 28, 1906.

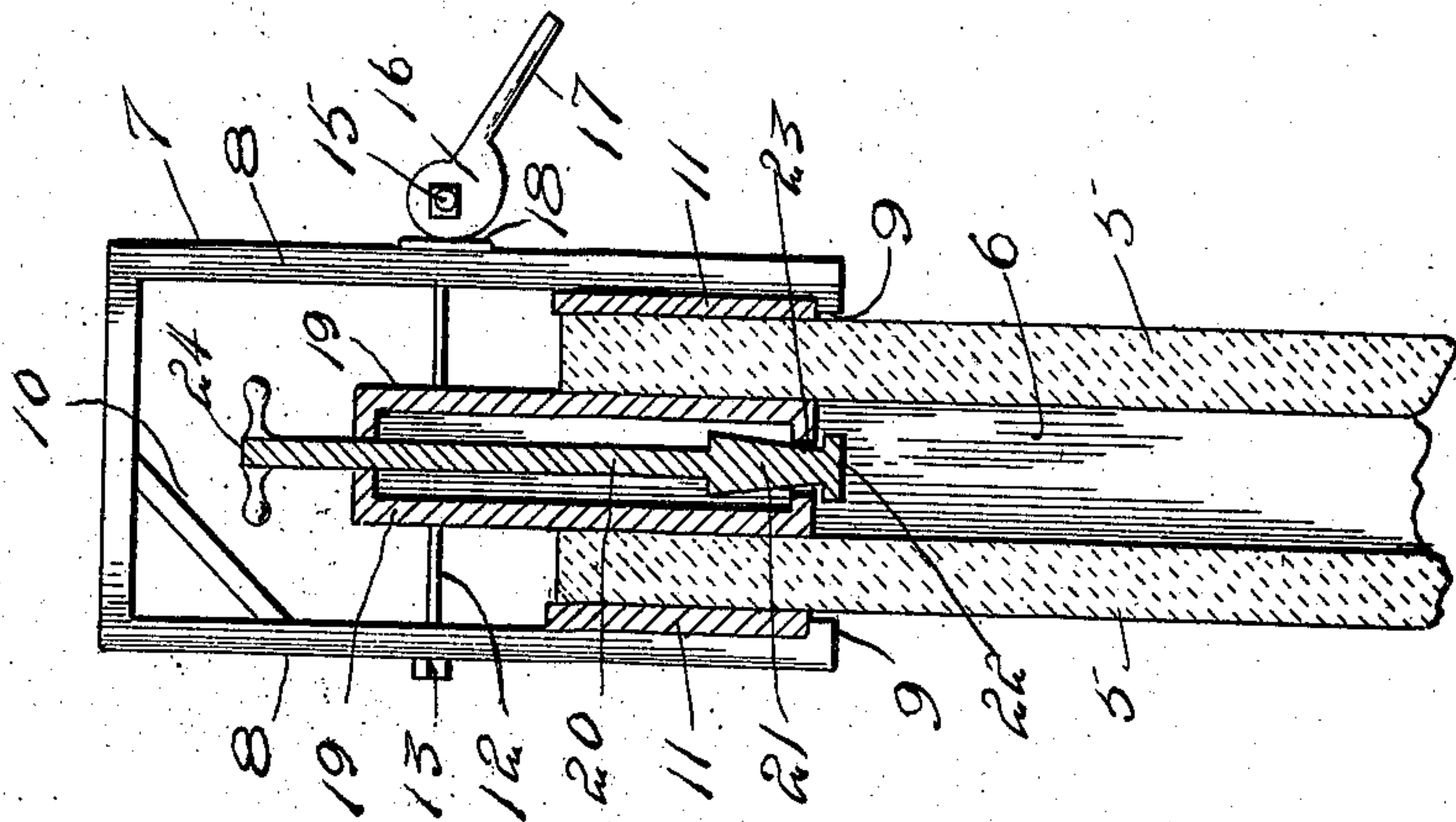


FIG. 1

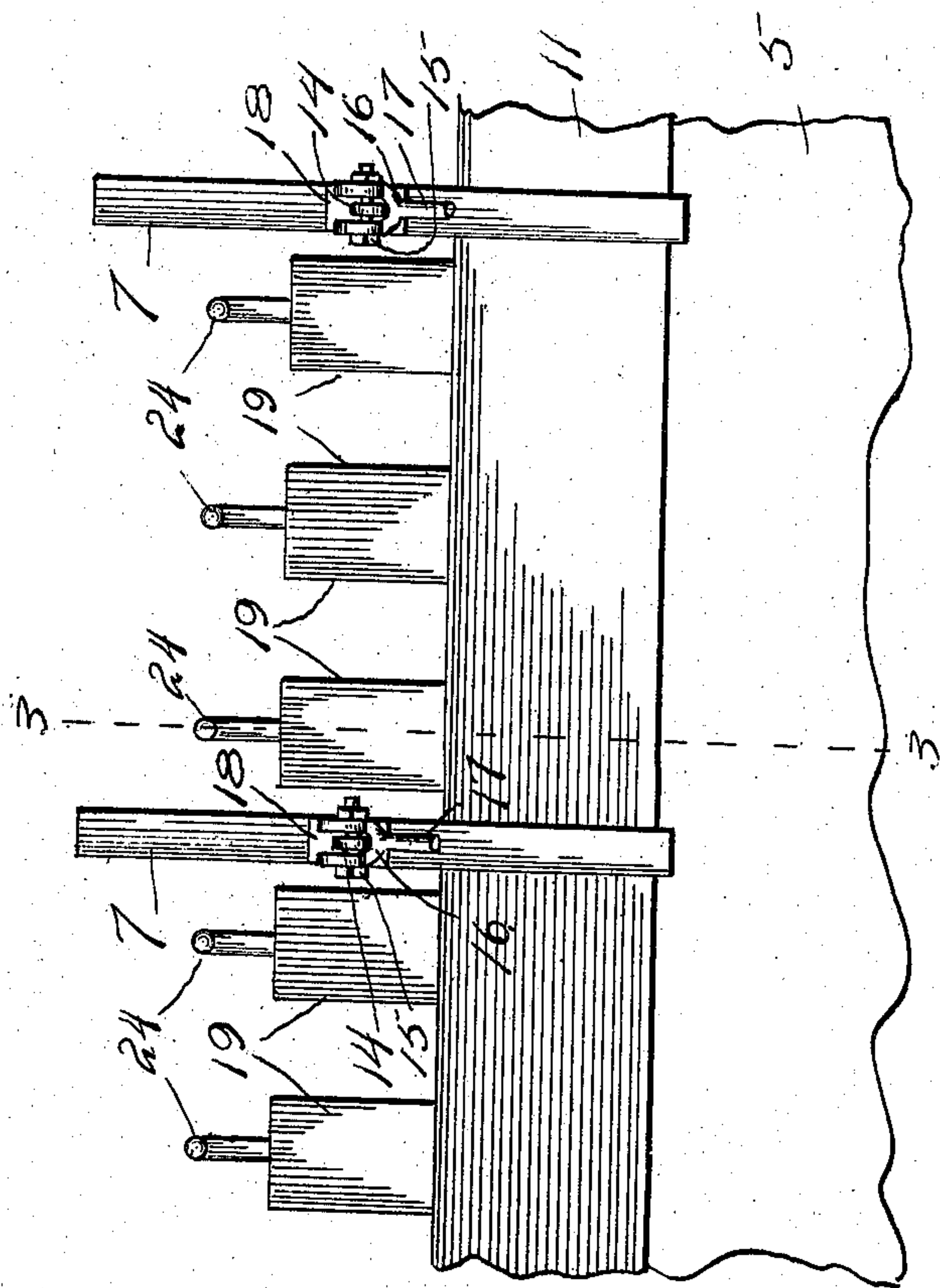


FIG. 2

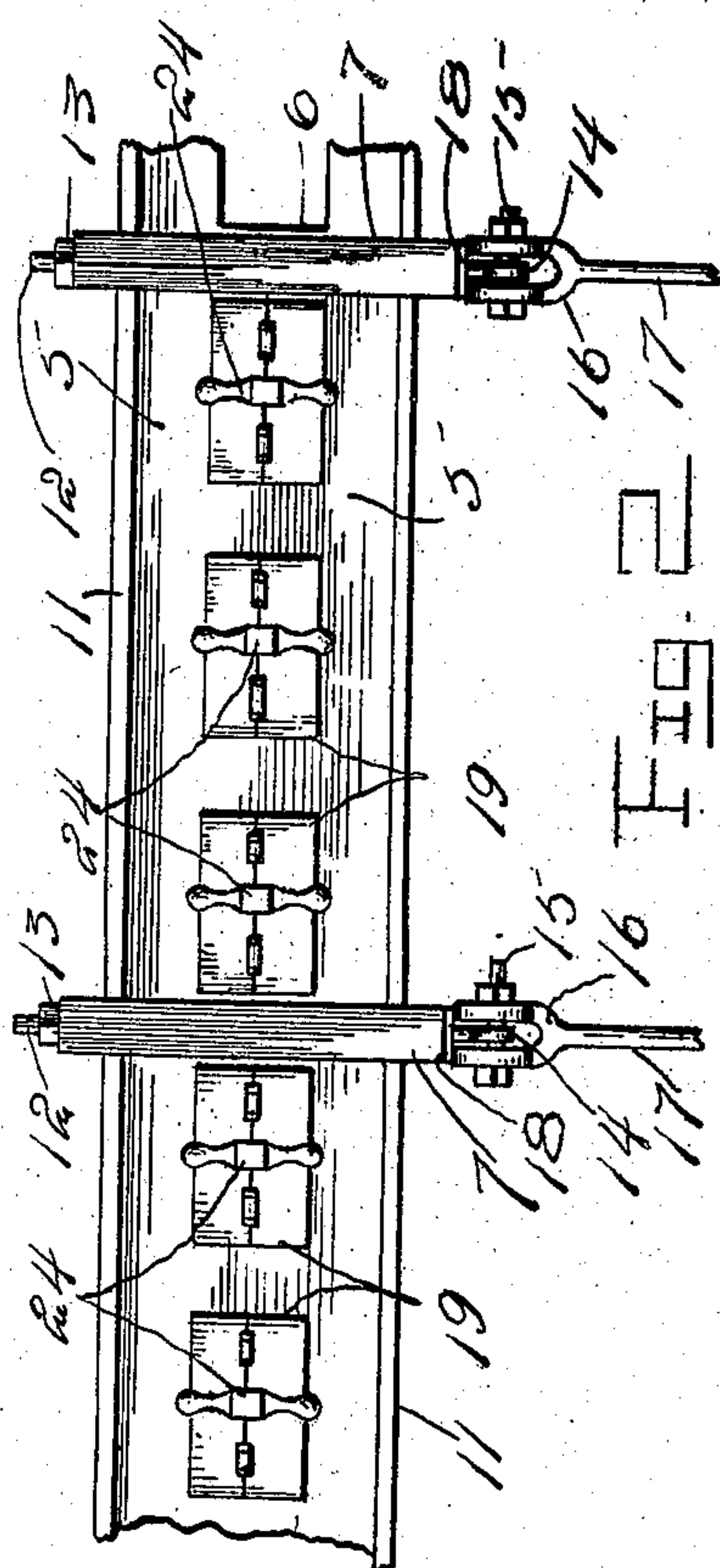


FIG. 3

Witnesses
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UNITED STATES PATENT OFFICE.

ALTON I. SPRAGUE, OF RUTHERFORD NEW JERSEY

HOLLOW-CONCRETE-WALL MOLD.

No. 858,480.

Specification of Letters Patent.

Patented July 2, 1907.

Application filed March 28, 1906. Serial No. 308,592.

To all whom it may concern:

Be it known that I, ALTON I. SPRAGUE, a citizen of the United States, residing at Rutherford, in the county of Bergen, State of New Jersey, have invented certain new and useful Improvements in Hollow-Concrete-Wall Molds; and I do hereby 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.

10 This invention relates to molds for forming concrete walls and has for its object to provide a mold of this character by means of which a wall may be formed with vertical continuous air shafts which may be used for the purpose of ventilation or lighting.

15 A further object of the invention is to provide a portable mold of this character which will be simple in construction and efficient in action.

In the accompanying drawings: Figure 1 is an elevation of a portion of a wall showing my invention in use. 20 Fig. 2 is a top plan view showing the construction of the wall and the manner of mounting the mold, and, Fig. 3 is a vertical transverse sectional view on the line 3—3 of Fig. 1.

Referring to the drawings, the numeral 5 denotes the 25 wall formed by the mold and provided with vertical continuous air shafts 6.

A pair of frame members 7 include each a connecting portion and spaced parallel arms 8 which have their extreme lower ends directed inwardly toward each other as at 9. Extending obliquely from the connecting portion of each frame to one of its arms 8 is a brace 30 10 which prevents bending of the frame at the corner adjacent thereto. Disposed upon opposite sides of the wall 5 and between the same and the arms 8 of the frame are boards 11 which serve as the sides of the mold, the 35 said boards having their lower edges resting upon the intumed ends of the arms 8 of the frame as will be readily understood.

Extending transversely of the frames 7 and engaged through openings in the arms thereof are bolt rods 12 40 which are provided at one of their ends with nuts 13 and at the other of their ends with eyes 14 through each of which latter is engaged a bolt 15. Pivotaly mounted upon the bolt 15 is a cam clamping member including a bifurcated cam head 16 and an operating handle or 45 lever 17. As shown, the eye of the bolt rod is received in the bifurcation in the cam head and disposed between the said head and the adjacent arm of the frame is a wear plate 18.

In order to form the air spaces or shafts, I provide 50 expansible cores each comprising a pair of members 19 which are hinged at their upper meeting edges, the said edges being correspondingly recessed for the passage of a rod 20. The rod 20 is enlarged at its lower end to form a wedge 21, the lower end of which is enlarged 55 as at 22 to prevent its entire withdrawal through registering recesses 23 in the lower meeting edges of the sections of the core. At its upper end, the rod 20 is provided with a handle 24 by means of which the rod may be moved up or down to expand the core or to allow 60 the same to contract.

What is claimed is:

A device of the class described comprising mold members arranged in spaced relation, means for compressing the mold members, cores arranged intermediate the mold 65 members and including each a pair of sections closed at each end, the said sections being provided at the edges of their lower closed ends with registering notches, and a wedge core expanding member located in the cores and extending with its wedge portion through the notches and 70 provided upon its said wedge portion and below the lower end of said core with a head for preventing its disengagement from the core.

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

ALTON I. SPRAGUE.

Witnesses:

JOHNSON BELL,
GUY SPRAGUE.