## 25. FLASTIC BLOCK & EASTHENWARE APPARATUS, Block Molding Mechines.



No. 835,201.

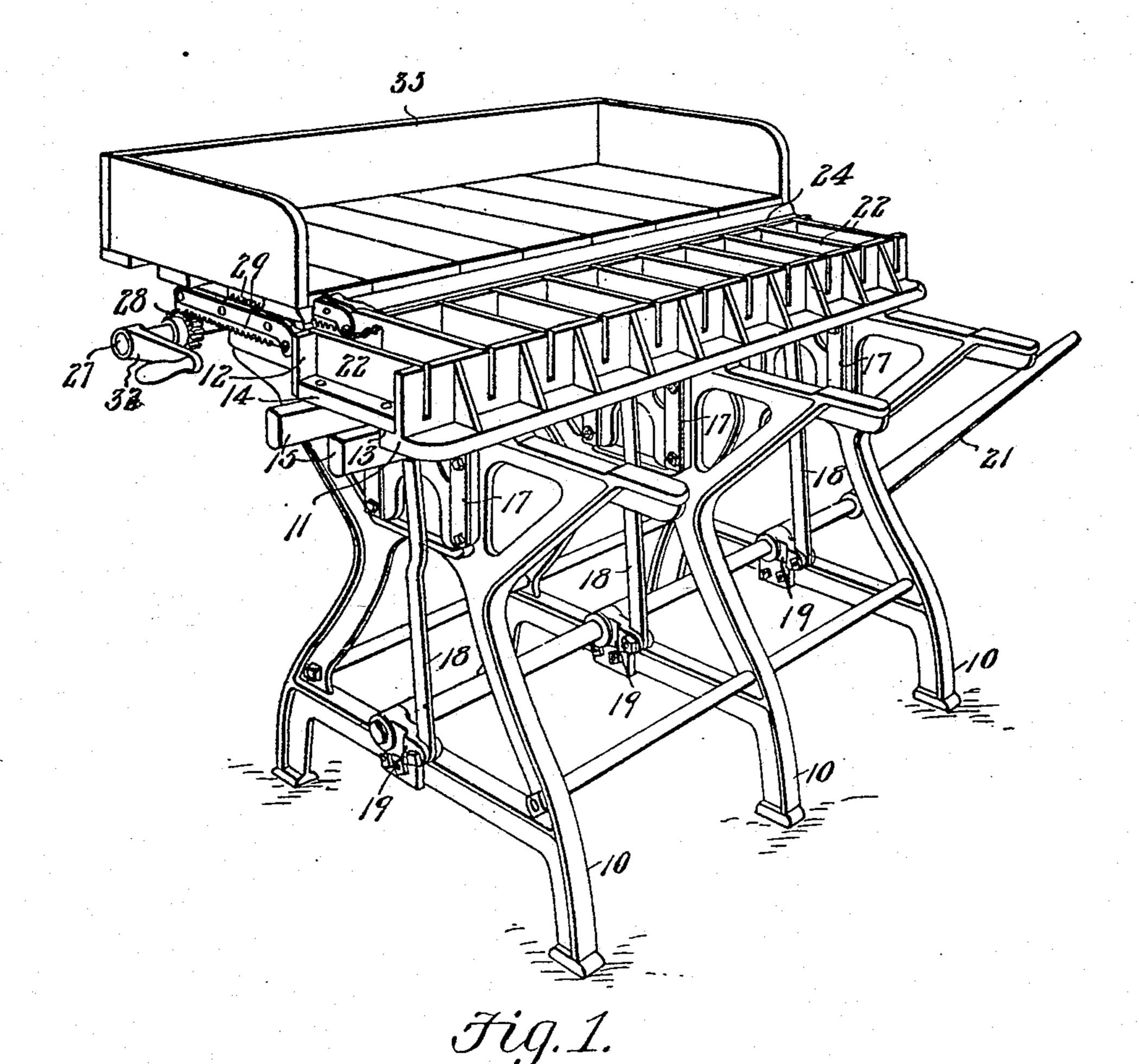
PATENTED NOV. 6, 1906.

D. P. SANDERS.

BRICK MACHINE.

APPLICATION FILED OCT. 10, 1905.

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Inventor.

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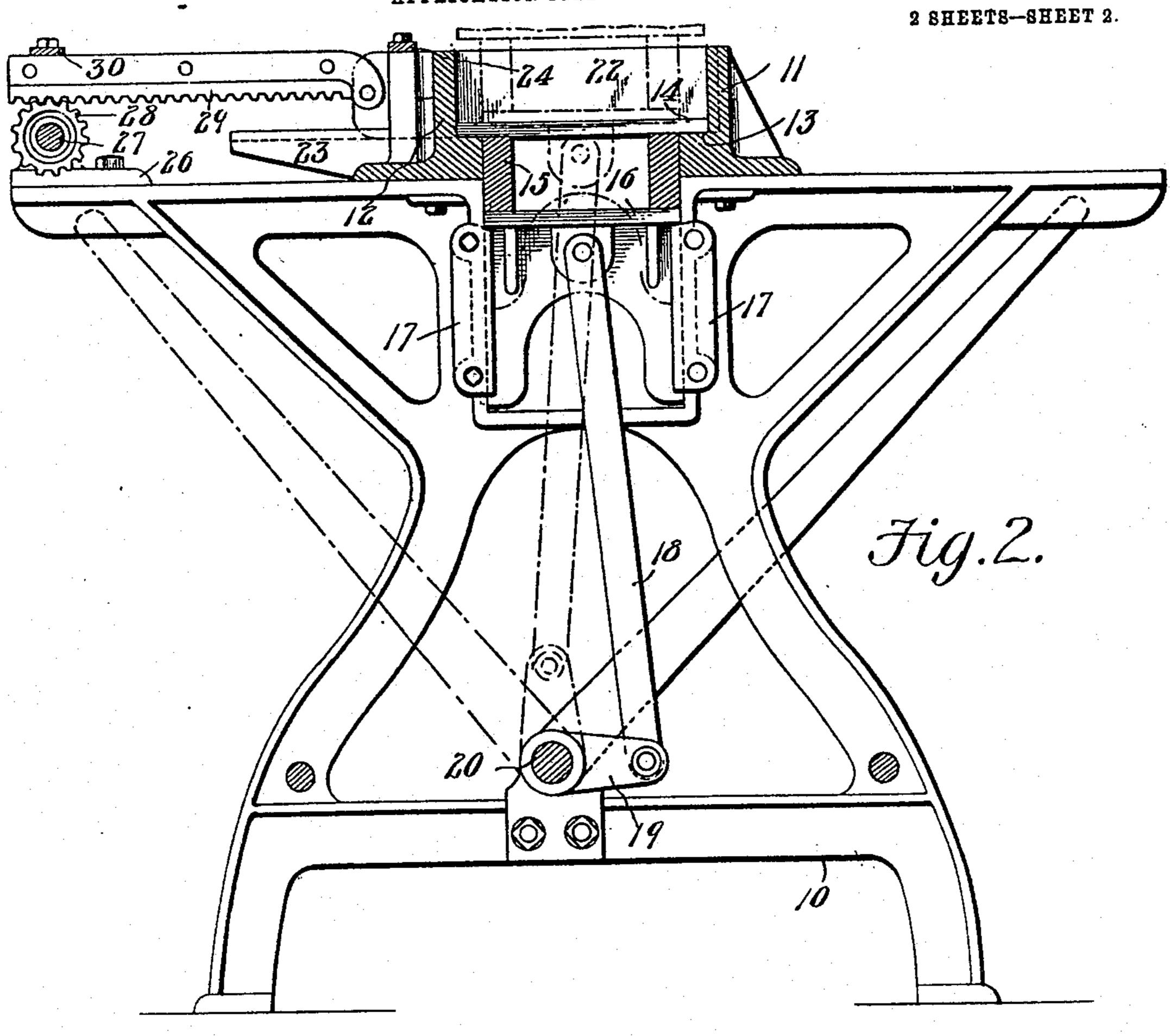
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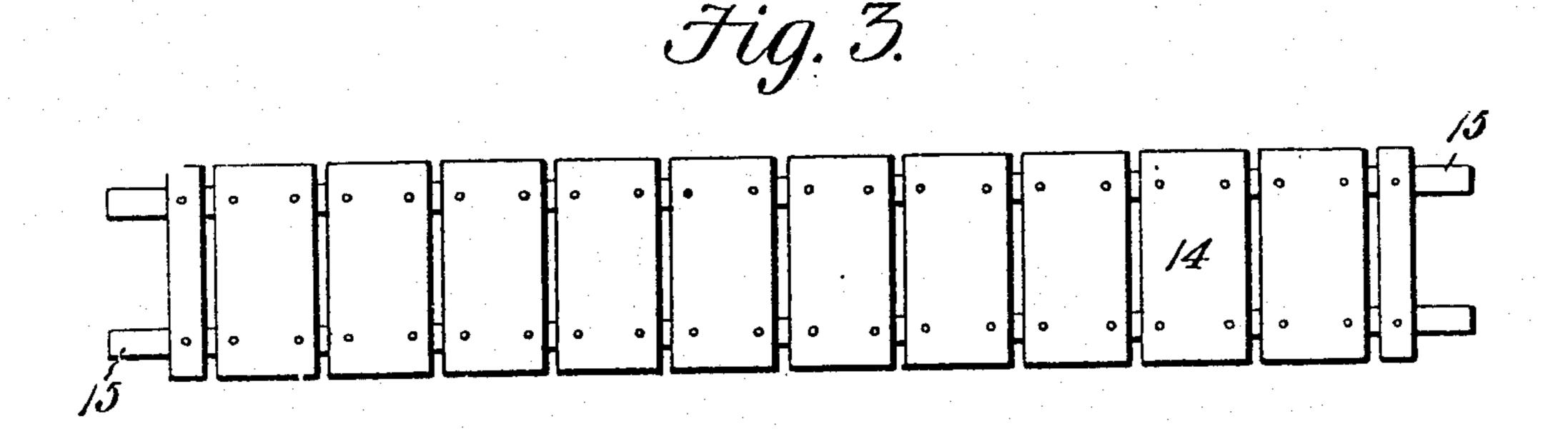
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David P. Sanders, Inventor
by Cashow the Attorneys intell, 679, 232, July 23, 1901 (25-121) ritish pat to Gaspany, 12, 899 of 1903 (25-41) UNITED STATES PATENT OFFICE. DAVID P. SANDERS, OF READING, PENNSYLVANIA. BRICK-MACHINE. Patented Nov. 6, 1906. Specification of Letters Patent. No. 835,201. Application filed October 10, 1905. Serial No. 282,202. to indicate corresponding parts throughout To all whom it may concern: the several figures of the drawings. Be it known that I, DAVID P. SANDERS, a The working parts of the machine are supcitizen of the United States, residing at ported upon a suitable frame, which in the Reading, in the county of Berks and State of 5 Pennsylvania, have invented a new and usepresent instance comprises three standards 50 10, that are rigidly connected at their upper ful Brick-Machine, of which the following is a ends by flanged cross-bars 11 and 12, said specification. bars constituting the front and rear station-This invention relates to machines for the ary side walls of the mold-box. The inner formation of blocks, bricks, and similar artiface of each of the bars is provided with a 65 10 cles from concrete or other cement mixtures, shoulder 13, on which rests a pallet 14, and and has for its principal object to provide a the pallet in the present instance is formed of mechanism of simple construction adapted a large number of strips that are slightly for the molding of a number of small blocks spaced from each other and are secured to or bricks simultaneously, the apparatus beand carried by a pair of bars 15, the ends of 70 15 ing of such nature that the blocks may be which project beyond the pallet-surface formed very rapidly and quickly removed proper and form carrying-handles. from the machine and placed on the drying-The bars 15 rest on a number of verticallyfloor. A further object of the invention is to promovable slides 16, the opposite edges of which are adapted to suitable guides 17, 75 20 vide a multiple molding-machine in which bolted or otherwise secured to the standards, the mold-box proper is divided into a pluand each slide is connected by an abutment rality of chambers or spaces by slidably-18 to a rocker-arm 19 on a rock-shaft 20, that mounted partition-blocks, which are withis adapted to suitable bearings in the lower drawn endwise before the material has fully portion of the frame of the machine. At one 80 25 set, the partitions thus acting to trowel or end of the rock-shaft is an operating-lever smooth the edges of the blocks. A still further object of the invention is to 21, which may be moved from the full-line. position shown in Fig. 2 to the dotted-line provide a multiple molding-machine in which position shown in the same figure in order to the mold-space is arranged for the reception elevate the pallet and the blocks carried 85 30 of a pallet that is divided by transverse grooves or spaces, and the mold-box is correthereby. . Both the front and rear walls of the moldspondingly provided with movable partibox are provided with slots for the passage of tions that enter between said spaces, the parpartition-plates 22, the rear ends of said titions being first removed from place in orplates being supported in grooved arms 23, 90 35 der to permit the raising of the pallet and the that extend outward from the lower portion blocks from position within the mold-box. of the bar 12, and said partition-plates are With these and other objects in view, as held depressed by a strip 24, that extends will more fully hereinafter appear, the invenover the whole series of plates at a point just tion consists in certain novel features of conto the rear of the bar or mold member 12. 95 40 struction and arrangement of parts herein-The upper rear portions of the standards after fully described, illustrated in the are provided with bearing-blocks 26 for the accompanying drawings, and particularly pointed out in the appended claims, it being reception of a shaft 27, to which are secured a number of pinions 28. Intermeshing with understood that various changes in the form, the pinions 28 are rack-bars 29, that are held 100 45 proportions, size, and minor details of the down in engagement with the pinions by a structure may be made without departing transversely-extending strip 30. The forfrom the spirit or sacrificing any of the adward ends of the rack-bars are pivotally convantages of the invention. nected to the rear ends of the slidable parti-In the accompanying drawings, Figure 1 is tions 22, and when the shaft is turned by the 105 50 a perspective view of a block-molding macrank 32 all of the partitions are moved sichine constructed in accordance with the inmultaneously to or from position within the vention. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a plan view of mold-box. At a point above and to the rear of the the pallet detached. mold-box is arranged a mixing board or 110 Similar numerals of reference are employed British hot to Erichsen, 20,893 of eamans, 769,771, Pep. 13, 1904

trough 35, on which the concrete or other cement mixture may be placed prior to its in-

troduction within the mold.

In the operation of the device the parti-5 tions are all adjusted to the position shown in Fig. 1, and the material previously mixed and placed in position on the board or partition 35 is drawn over by a smoothing-trowel or the like, and all the mold-boxes are filled, 10 the surplus material being troweled off in the usual manner. The crank 32 is then turned, and all of the partitions are simultaneously withdrawn from the mold-box, the partitions sliding in engagement with the surfaces of 15 the blocks or bricks before the latter are fully set and finishing the surfaces. When the partitions are fully withdrawn, the operatinglever 21 is moved from the full-line position to the dotted-line position of Fig. 2, and its 20 movement, transmitted through the rockshaft 20 and pitman 18, elevates all of the slides 16, and the pallet 14, together with all of the molded rests, is raised to a position

be removed to the drying-floor.

With an apparatus constructed in accordance with this invention a large number of bricks may be simultaneously made at com-

above the top of the mold-box in position to

paratively small expense.

Having thus described the invention, what is claimed is—

1. The combination in a molding-machine

of a mold-box open at its opposite ends and having slotted front and rear walls, partitions arranged within said slots to divide the mold-35 box into molding-spaces, a pair of supporting-bars arranged below the mold-box, pallet members secured to said supporting-bars, a plurality of movable slides arranged under said bars, a rock-shaft, rocker-arms thereon, 40 and connecting-rods extending between the rocker-arms and slides:

2. The combination in a molding-machine, of an open-ended mold-box having slotted front and rear walls, slidably-mounted partitions arranged to divide the mold-box into a series of mold-spaces, guiding and supporting means for the partitions, racks pivotally connected to said partitions, a cranked shaft having a series of pinions intermeshing with 50 said racks, means for holding the racks in engagement with the pinions, a multiple pallet member forming the bottom of the mold-box, a series of vertically-movable slides supporting said pallet member, a rock-shaft operatively connected to said slides, and an operating-lever secured to the rock-shaft.

In testimony that I claim the foregoing as my own I have hereto affixed my signature

in the presence of two witnesses.

DAVID P. SANDERS.

Witnesses:

MARY E. STAUFFER, W. A. C. OAKS.