E. P. OLSON & J. T. JACKSON.

MORTARING DEVICE.

APPLICATION FILED JULY 6, 1909.

1,033,453.

Patented July 23, 1912.

2 SHEETS—SHEET 1.

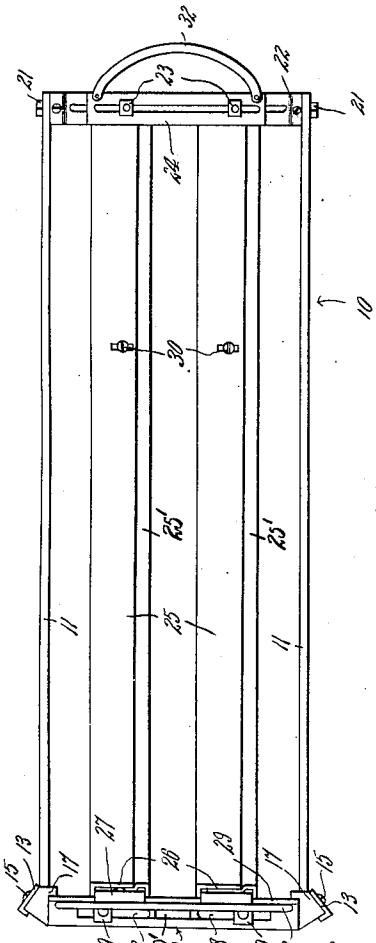

Fig. 1.

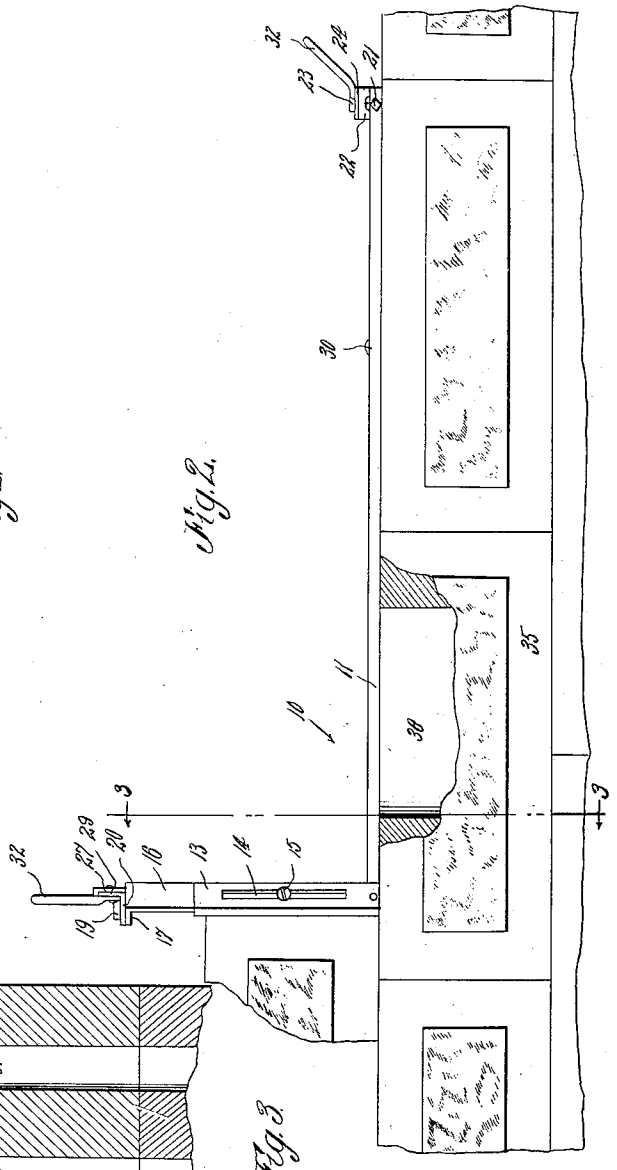

Fig. 2.

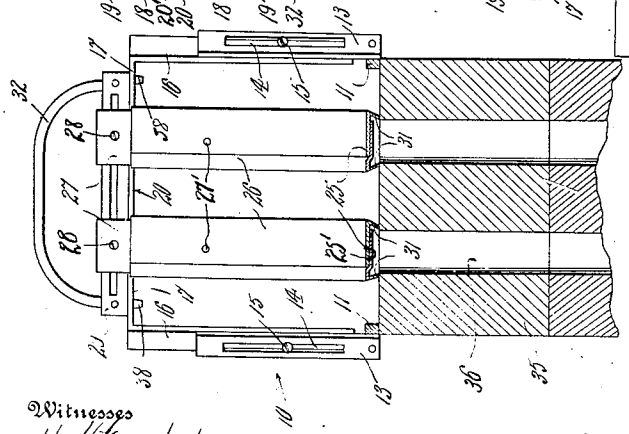

Fig. 3.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

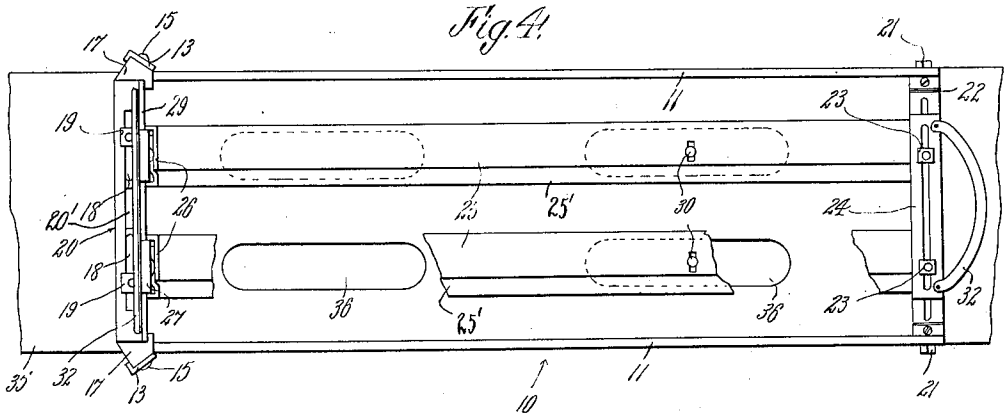
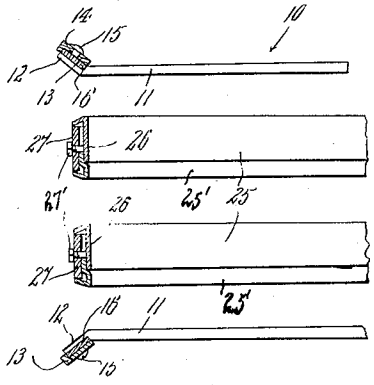


Fig. 6.



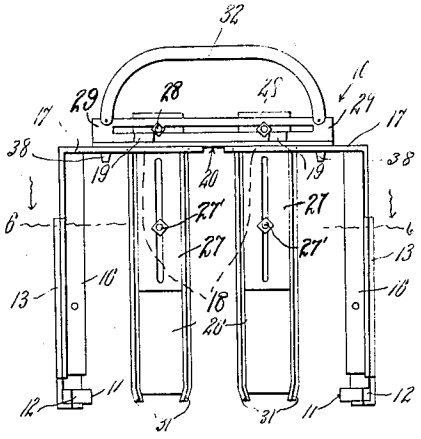


Fig. 5.

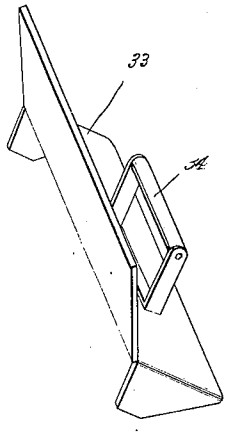


Fig. 7.

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UNITED STATES PATENT OFFICE.

EDDIE P. OLSON AND JOHN THEODOR JACKSON, OF MOUNT STERLING, WISCONSIN.

MORTARING DEVICE.

1,033,453. Specification of Letters Patent. Patented July 23, 1912.

Application filed July 6, 1909. Serial No. 506,176.

To all whom it may concern:

Be it known that we, EDDIE P. OLSON and JOHN THEODOR JACKSON, citizens of the United States, residing at Mount Sterling, in the county of Crawford, State of Wisconsin, have invented certain new and useful Improvements in Mortaring Devices; and we 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.

This invention relates to a mortar device and more particularly to the class of devices for use in mortaring hollow cement building blocks when constructing walls, partitions or the like.

The primary object of the invention is the provision of a device of this character in which mortar may be conveniently and rapidly applied to a hollow building block so that the said mortar will not fall into the air spaces or hollow portions of the block when being applied thereto in the erection of a building wall, partition or the like.

Another object of the invention is the provision of a device of this character in which mortar may be applied in a uniform and even manner to hollow building blocks and that is capable of adjustment so that it may be used with varying sized hollow blocks when constructing a building wall or other masonry.

A further object of the invention is the provision of a device of this character which is simple in construction, thoroughly reliable and efficient in operation, and inexpensive in the manufacture.

In the drawings, accompanying and forming part of this specification is illustrated the preferred form of embodiment of the invention, which to enable those skilled in the art to practise the invention, will be set forth at length in the following description, while the novelty of the invention will be pointed out in the claims succeeding the description, it being understood of course, that minor changes, variations, and modifications may be made such as come properly within the scope of the appended claims without departing from the spirit of the invention.

In the drawings:—Figure 1 is a top plan view of the invention. Fig. 2 a side elevation with the device shown applied to a building wall. Fig. 3 a section on the line 3—3 Fig. 2. Fig. 4 a view similar to Fig. 1 showing the device applied to a building wall and partly broken away. Fig. 5 an end elevation looking toward the left hand end of the device in Fig. 1. Fig. 6 a section on the line 6—6 Fig. 5, and Fig. 7 a detail perspective view of the trowel or mortar spreading device.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings, 10 designates generally a mortaring device constructed in accordance with the invention, said device comprising a skeleton frame having spaced parallel side bars 11 bent at one end of the frame to form outwardly diverging angularly disposed terminals 12, Figs. 5 and 6. Bolted to each of the terminals 12 is an upright 13. These uprights are provided with elongated slots 14 respectively and slidably mounted in each of the slots is an adjustable binding bolt 15 by means of which vertical bars 16 are adjustably secured to the uprights 13. These bars 16 have their upper ends bent inwardly toward each other so as to form right angular extensions 17, which latter are provided with elongated slots 18 Fig. 1. Secured to the angular extensions 17 by means of bolt fasteners 19 engaged in the slots 18 is an angular cross connecting plate 20, said plate having one arm disposed flat upon the angular extensions 17 and provided with a slot 20′ in which the bolt fasteners 19 are also engaged so that the side bars 11 may be spread apart or brought into close relation with each other.

Secured to the opposite ends of the side bars 11 by fasteners 21 are inwardly directed slotted members 22 respectively. These members are disposed at right-angles to the side bars and have engaged in their respective slots binding bolts 23, by means of which a slotted cross connecting plate 24 is adjustably connected to the members 22. As the binding bolts 23 engage in the slots of respective members 22 and in the slot of the cross connecting plate 24 it will be apparent that the side bars may be moved away from and toward each other at that point in a similar manner with respect to the other cross connecting plate 20 at the opposite end of the frame.

Connected to the cross connecting plates 20 and 24 of the frame and disposed longitudinally of the latter between the side bars are adjustable slats comprising overlapping

sections 25 and 25′. The ends of the sections 25 and 25′ of each slat are bent upwardly at right-angles as at 26 and adjustably secured to the cross connecting plate 20. This adjustable connection between the plate 20 and the sections of each slat is had by adjustably connecting the upwardly bent rightangular extremities 26 of the slat sections to slotted terminal plates 27 by means of bolts 27′ and in turn adjustably connecting said plates 27 by binding bolts 28 to the slotted rightangular portion 29 of the cross connecting plate 20. By this construction the sections of each slat may be adjusted laterally toward and away from each other and the bolts 27 moved toward and away from the free ends of the angular bent portions 26 of the slats. It will be noted that by bending the slat sections 25 and 25′ upwardly as at 26 such upwardly bent portions will engage the exposed end of a previously laid block during the use of the device and thus aid in correctly positioning the device for the application of mortar upon which to lay the next block.

The overlapping sections of the slats are held adjustably connected by fasteners 30 and each section has its outermost edge bent downwardly to form a depending flange 31, which extends throughout the length of the section and these flanges of the sections of each slat converge toward each other so as to not disturb the mortar when placed in the spaces between the slats upon hollow building blocks, as the frame is being lifted or removed therefrom.

Secured to and rising from the cross connecting plates 20 and 24 are loop handles 32, which latter are adapted to be gripped by an operator when the mortaring device is in use.

To spread mortar in the spaces between the slats on the frame there is provided a trowel or spreading device 33, having a handle 34, which enables an operator to manipulate the said device when laying the mortar upon the hollow building blocks.

In operation, the mortaring device is positioned upon the upper faces of adjacent hollow building blocks 35, so as to have the overlapping sections of the slats 25 cover or lie across the air spaces 36, in the building blocks and then mortar is laid upon the frame so as to fill in the spaces between the slats 25, by the trowel or spreading device 33, and in this manner a coating of mortar is applied to the building block in a uniform and even manner and without possibility of the mortar filling the air spaces 36, in the said building blocks while constructing a wall or partition.

From the foregoing, the construction and operation of the invention will be clearly apparent without the necessity of a more extended explanation and therefore the same has been omitted.

What is claimed is—

1. A device of the class described comprising a skeleton frame having side bars, means connecting the opposite ends of the side bars to permit adjustment thereof toward and away from each other, and substantially inverted U-shaped slats adjustably secured to said means, each of said slats being formed of two sections adjustably overlapping each other to permit widening and narrowing of the slats, the said slats being normally spaced from each other.

2. A mortaring device comprising a skeleton frame having spaced parallel longitudinal side bars, the same being bent at one end of the frame to provide outwardly diverging angularly disposed terminals, uprights secured to said terminals, vertical side bars adjustably secured to the uprights, a cross connecting plate adjustably secured to corresponding ends of the longitudinal side bars, a handle secured to said cross connecting plate, substantially inverted U-shaped slats arranged between said longitudinal and vertical side bars and adjustably connected at one end to the cross connecting plate, and an adjustable connection between said slats at their other end.

In testimony whereof, we affix our signatures in presence of two witnesses.

EDDIE P. OLSON.
JOHN THEODOR JACKSON.

Witnesses:
JOHN SMETHURST,
A. M. SALBERG.