No. 777,994. PATENTED DEC. 20, 1904.

W. J. WOOD.

MOLDER'S BOX.

APPLICATION FILED MAY 3, 1904.

NO MODEL

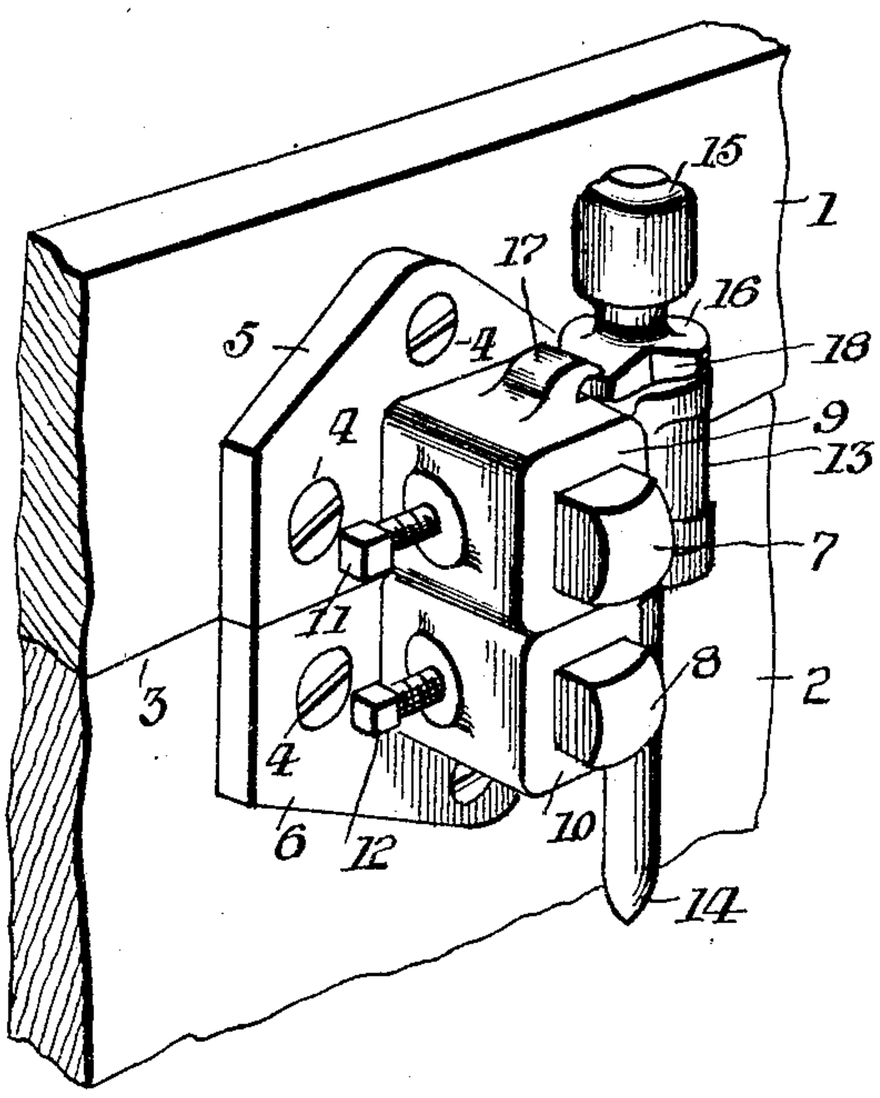

Fig. 1.

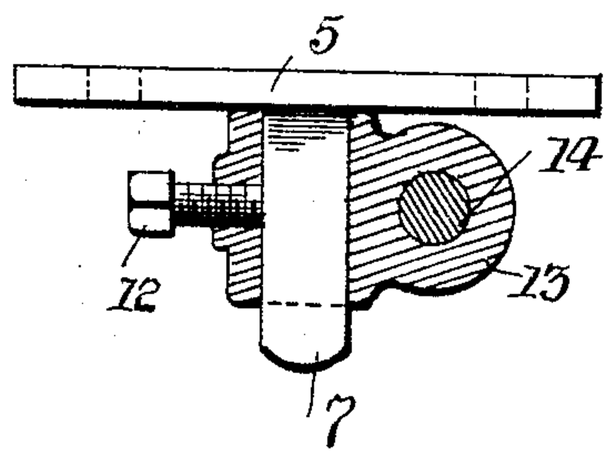

Fig. 2.

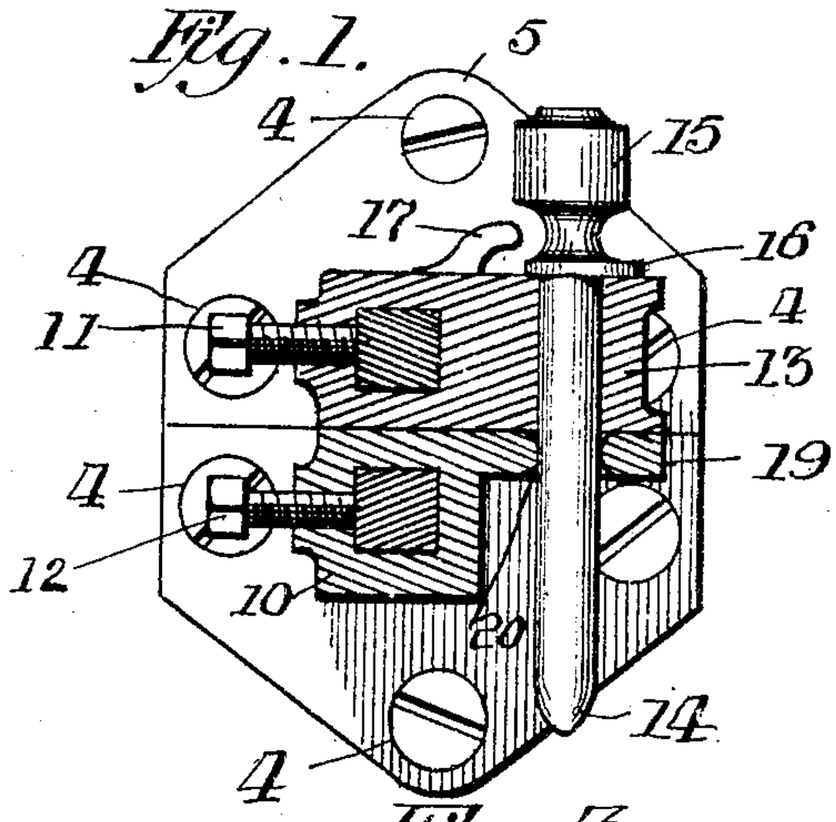

Fig. 3.

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No. 777,994. Patented December 20, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM J. WOOD, OF PITTSBURG, PENNSYLVANIA.

MOLDER'S BOX.

SPECIFICATION forming part of Letters Patent No. 777,994, dated December 20, 1904.

Application filed May 3, 1904. Serial No. 206,177.

To all whom it may concern:

Be it known that I, WILLIAM J. WOOD, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Molders' Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to molding-flasks, and has for its object the production of a pin and socket of novel form for securing together the several sections of the molding-box.

The invention consists in the novel construction, combination, and arrangement of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improvement in position upon a molding apparatus, a portion of the cope and a portion of the drag being shown to illustrate my improvement in position. Fig. 2 is a horizontal sectional view, and Fig. 3 is a vertical sectional view, of my improvement.

Referring to Fig. 1 of the drawings, 1 designates a portion of the side of the cope of the mold, and 2 designates a portion of the side of the drag of the mold. I have illustrated my improvement as being applied to the cope and drag parts of the mold, and I wish it to be understood that it is also adapted to be applied to the other separable sections of the mold and in the same manner as is illustrated in the drawings, where it is shown as being applied to the cope and the drag. The sides of the cope and the drag meet on a horizontal line 3, and upon the outside of each, adjacent to the line 3, I affix, by means of screws 4 4, two similar flat plates 5 and 6, the plate 5 carrying a laterally-projecting square pin 7 and the plate 6 carrying a similar pin 8. Upon the pins 7 and 8 are mounted two blocks 9 and 10, the said blocks being slidable on the pins and provided with screws 11 12, by means of which the blocks may be firmly held at any position to which they may be adjusted upon the pins. The block 9 is formed with a laterally-projecting arm 13, which is pierced for the passage of a pin 14, the said pin having a head 15 and an eccentric flange 16, which when the pin is in position in the arm 13 can by turning the pin be caused to engage with a curved ear 17 on top of the block 9. A notch 18 is formed in the flange 16 for convenience in disengaging the flange from the curved ear 17. The lower block 10 has a laterally-projecting arm 19, which is pierced at 20 for the passage of the pin 14, the hole in the arm 19 being formed with semicircular or curved walls—that is, it tapers inwardly from the top and bottom of the arm, so that the pin 14 will bear on the walls of the hole only at the center thereof.

In operation the separable sections of the flange are placed in position one on top of the other, with the plate 5 over the plate 6, and the blocks 9 and 10 are then adjusted so that the holes in the arms 13 and 19 will coincide, whereupon the set-screws 11 12 are tightened up to retain the blocks in their proper position. The pin 14 is then passed through the holes in the arms 13 19, the configuration of the hole 20 permitting of some variation in the alinement of the separable sections of the mold and preventing the pin from binding when it is to be drawn out. After the pin has been inserted in the holes in the arms 13 19 it is turned around so as to cause the flange 16 to engage with the ear 17, and thus lock the pin 14 tightly in the arms 13 and 19. It is to be understood, of course, that a suitable number of devices above described are arranged at proper intervals along the sides and ends of the separable sections.

The device above described can be rapidly applied to the separable mold now ordinarily used in molding, and the adjustable blocks 9 10 permit of the device being applied to molds wherein the separable sections vary somewhat in length or diameter, and the whole device is of such strong and simple construction that it is not liable to be damaged or broken by the rough usage to which molding devices are usually subjected.

Having described my invention, I claim—

1. In a device of the type described, the combination of plates, pins projecting therefrom, blocks slidably mounted on said pins, means for securing said blocks in adjusted position on the pins, laterally-projecting arms carried

by said pins and having vertical holes, with a pin passing through the holes in said arms, as set forth.

2. In a device of the character described, the combination of plates having laterally-projecting square pins, blocks slidably mounted on said pins, arms projecting from said blocks and formed with vertical holes, means for securing the said blocks in adjusted position on said pins, an ear formed on one of said blocks, a pin passing through the holes in said arms, and a flange carried by said pin and engaging with said ear.

3. In a device of the character described, the combination with plates adapted to be fastened to the separable sections of a mold, laterally-projecting square pins carried by said plates, blocks slidably mounted on said pins, means for securing said blocks upon the pin, arms projecting from said blocks, and having vertical holes formed therein, and a pin passing through said holes, the hole in one of said arms being tapered from both ends toward its center.

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

WILLIAM J. WOOD.

Witnesses:

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