I. C. FREY

FLOATING STRIKE FOR BRICKMAKING MACHINES

Filed Nov. 13, 1924

Fig. 1.

Fig. 2.

Fig. 3.

Inventor

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By Mason

Attorney
To all whom it may concern:

Be it known that I, IVAN C. FREY, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Floating Strikes for Brickmaking Machines; 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.

This invention has for its object to provide a floating strike for use in connection with a brick-making machine.

The various features of novelty and invention will appear from the detailed description taken in connection with the accompanying drawing in which:

Fig. 1 is an elevation of the outside of a press box showing the preferred method of supporting the floating strike, thereon.

Fig. 2 is a vertical section taken transversely through the strike and press box showing the passages through which mud is forced down onto the strike; and

Fig. 3 is a fragmentary view on an enlarged scale of parts shown in Fig. 2.

In the drawing, the press box is indicated generally by 5 within which a plunger, not shown, operates to force mud into the mold 6 indicated therebelow in dotted lines. The press box is provided with a die frame 7 through the opening 8 of which the mud is forced, the construction thus far described being more or less conventional.

A door 9 is secured to the press box in any suitable manner as at 10. Slidably mounted on the door is a support or bracket generally indicated by 11 and secured to the lower inside edge thereof as by screw bolts 12 is a strike-off strip 13. The bracket is conveniently secured in place by guiding lugs 14 suitably secured to the door, it being understood that the bracket has a limited up and down movement with respect to the door 9.

The bottom edge of the door 9 terminates at a level with the top of the die frame and that side of the door facing the press box has a recess or groove 15 cut therein extending from its bottom edge to a point thereabove, said groove preferably varying in depth from the said bottom edge upwardly. The strike-off strip 13 is cut back as at 16 above its lower edge whereby there is constituted a pocket between the adjacent wall 7' of the die frame and said strip. The said wall 7' is cut back from the bottom of the die frame sufficiently to provide a narrow opening 7 above said lower edge of the die frame.

The limited up and down movement allowed the die frame in the press box is not sufficient to permit the top of its wall 7' to drop below the bottom edge of the door 9 nor is the up and down movement of the strike-off-strip bracket 11 sufficient to permit the pocket 16 to be opened below the bottom edge of the said wall 7'.

The strike-off strip has its heel beveled off as is customary. The strike-off-strip bracket 11 has a lateral projection extending below the bottom of the press box wall which has the groove 15 therein and to this projection the strike-off strip is secured. In order to allow for the requisite up and down movement of the said bracket there will be an open space between said projection and the bottom of the adjacent press box wall.

The operation of the device will now be explained. A mold having been placed below the die frame in the press box, the mud is forced into the mold through the die frame as will be readily understood. Due to the recess or groove 15 in the door forming part of the press box some mud will be forced down into the pocket 16 above the strike-off strip 13 and, incidentally, into the space between the bottom of the said door and the top of the strike-off strip, the pressure of the mud on the strike-off strip causing the heel of the latter to press firmly against the top of the mold therebeneath as the filled mold is pushed from beneath the die frame, the strike-off strip will strike off the excess clay which will pass back into the press box through the opening 7a below the die frame wall 7'.

Should there be a foreign object in the mold, the strike-off strip will ride up over the same against the pressure of the clay in the pocket 16 and thus obviate damage to the mold and pushout mechanism and perhaps other parts. As soon as the obstruction is passed over, the strike-off strip will again be forced down in position to strike off the surplus clay as will now be readily understood.

From the above it will be seen that there

Patented Apr. 28, 1925. 1,535,303

UNITED STATES PATENT OFFICE.

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FLOATING STRIKE FOR BRICKMAKING MACHINES.

Application filed November 13, 1924. Serial No. 749,746.
has been provided a simple and efficient floating strike-off device which is automatic in operation and admirably adapted for the purpose intended, a portion of the clay in the press box being by-passed onto the strike-off strip as the mold is being filled with clay.

What is claimed is:

1. The combination with a press box from which clay is adapted to be expressed, of a strike-off strip secured to said box at one side thereof for up and down movement with respect thereto, and means for by-passing some of the clay in the box onto the said strip to force it downward.

2. The combination with a press box from which clay is adapted to be expressed, of a strike-off strip secured to said box at one side thereof for up and down movement with respect thereto, means for by-passing some of the clay in the box onto the said strip to force it downward, and means for returning into the press box surplus clay which is struck off by said strip as a mold passes therebeneath.

3. The combination with a press box and a movable die frame in the bottom thereof below which a mold is adapted to be passed, of a strike-off strip secured to said box at one side thereof for up and down movement with respect thereto, means for by-passing some of the material in the press box onto the said strip to force said strip into contact with the mold beneath the die frame, and means permitting the surplus material struck off by said strip from said mold to be returned to said press box through said die frame.

4. The combination with a press box, of a strike-off strip slidably secured to said box at one side thereof, an upright wall alongside of which said strip is adapted to be moved, said strip having a cut back portion forming a pocket between said wall and above the bottom of both the strip and wall, said pocket being in open communication with the interior of the press box above the bottom of said wall.

5. The combination specified in claim 1, and the bottom of said wall being cut back to provide an open communication between said strip and press box.

6. The combination with a press box, of a strike-off strip slidably secured to said box for up and down movement adjacent a continued wall thereof, a by-pass for passing some of the material in the box into a pocket formed between said wall and strip, and a by-pass between the lower end of said strip and the press box through which material expressed from the box may be returned thereto.

7. In combination, a press box having an opening in one of its side walls above the discharge end thereof, whereby some of the material in the box may be forced through said opening, a strike-off strip mounted for movement toward and away from said opening and forming with said wall a pocket into which the material expressed through said opening is receivable, said wall being provided with a second opening above its bottom through which material expressed from the main discharge end of the box may be returned thereto, the material returned to the box being that struck off by said strip from a mold passing therebeneath.

8. In combination, a press box having a movable die frame in its bottom through which material is expressed into a mold adapted to be placed therebeneath, a strike-off strip arranged alongside one wall of the die frame to strike off surplus material from the top of said mold as it is pushed therebeneath toward the said strip, a recess extending upwardly between said strip and the bottom of said wall and opening into the press box whereby the struck-off material may enter the press box, and means for forcing the said strip downward to press upon the mold passed therebeneath, said means permitting the said strip to rise up over obstructions in the mold.

In testimony whereof I affix my signature.

IVAN C. FREY.