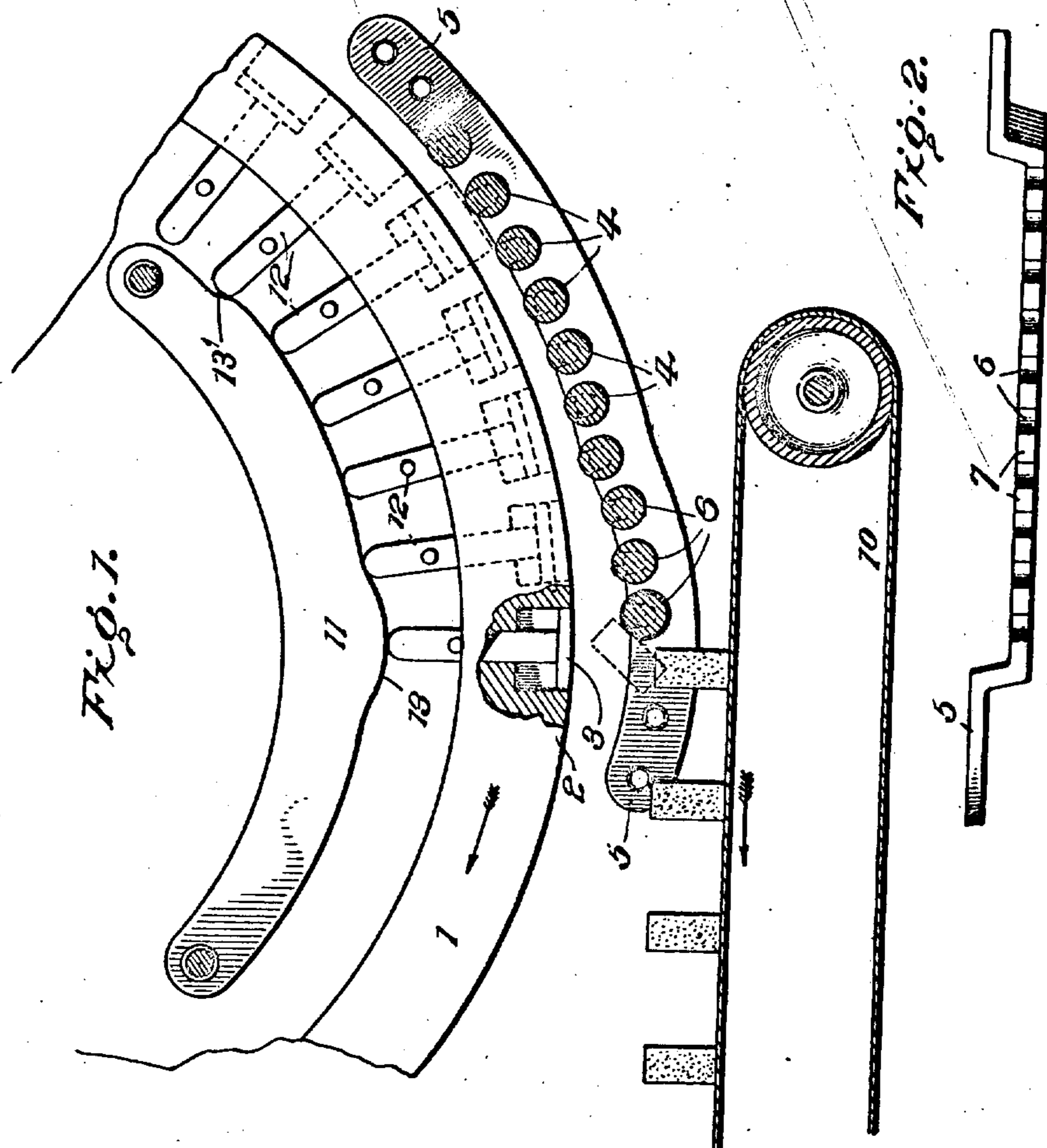


J. WALKER.
BRICK HANDLING DEVICE FOR BRICK MACHINES.
APPLICATION FILED MAY 17, 1907.

899,086.

Patented Sept. 22, 1908.



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Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH WALKER, OF ALEXANDRIA, VIRGINIA.

BRICK-HANDLING DEVICE FOR BRICK-MACHINES.

No. 899,086.

Specification of Letters Patent.

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Application filed May 17, 1907. Serial No. 374,150.

To all whom it may concern:

Be it known that I, JOSEPH WALKER, a citizen of the United States, residing at Alexandria, in the county of Alexandria and State of Virginia, have invented certain new and useful Improvements in Brick-Handling Devices for Brick-Machines, of which the following is a specification.

My invention relates to improvements in brick handling devices for brick machines.

The object of my invention is to provide an attachment for rotary brick machines, whereby the brick is tilted and placed upon its edge as it leaves the molding wheel.

Another object of my invention is to provide a more simple, cheap and effective device of this character.

In the accompanying drawings: Figure 1 is a side elevation, partly in section, of my device as applied to the ordinary rotary brick press or machine; and Fig. 2 is an enlarged plan view of the roller journal.

Referring now to the drawings, 1 represents the mold carrying wheels of the well known type of rotary brick machines and is provided in its outer periphery with mold openings 2, having plungers 3 for removing the bricks therefrom. Heretofore the bricks have been delivered to a traveling endless belt on their flat side, this being injurious to the brick as well as causing an extra handling of the brick in order to set it on edge.

It is the object of my invention to provide means for tilting the brick and allowing it to fall upon the endless conveyer on edge. Below the molding wheel 1, I have shown a series of rollers 4, which, as shown, are arranged in an arc of a circle parallel with the arc of the wheel. The said rollers being preferably mounted in plates 5 carried by the frame of the machine, the said plates having notches or recesses 6 in their upper edge to form a bearing for the journals of the rollers. These plates, as shown, are provided with a central off-set portion 7 which throws the journals of the rollers away from the frame. The rollers 8, as shown, are arranged in a line parallel with the arc of the wheel, as will be hereinafter described. The upper edge of the plate 5 is arranged, as shown in Fig. 1, to thus position the rollers, and the end roller is provided with a covering 9 of felt, or other soft material, to prevent injury to the brick.

Below the rollers is the endless conveyer 10 which receives the bricks and conveys them from the machine. Carried by the frame of

the machine is a plate 11 which is arranged adjacent the wheel 1 and is adapted to engage the stems 12 of the plungers 3 for forcing the bricks from the molds.

The cam plate 11 is provided with a double cam surface 13 and 13'. The cam surface 13' is so arranged that the plungers are forced half way out so that the bricks are resting upon the rollers 4. The continued rotation of the mold wheel brings the plunger stems 12 into engagement with the cam surface 13 which is so positioned that the plungers are gradually forced out. When the brick has reached the point between the last of the series of rollers 4 and the first of the series of rollers 8, the cam face 13 gradually forces the brick from the mold and as it passes over the covered end roller it slides therefrom in a tilted position and falls upon the endless conveyer or belt upon its edge.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination with a rotary brick molding wheel, having molds in its outer periphery, plungers for forcing the bricks from the molds, of an endless conveyer below the wheel, a series of rollers arranged around the periphery of the molding wheel and arranged to support and tilt the bricks as they leave the molds for delivering them on edge to the endless conveyer.

2. The combination with a rotary brick molding wheel having molds in its outer periphery, plungers for forcing the bricks from the molds, of an endless conveyer below the wheel, a series of rollers arranged around the periphery of the molding wheel, and means for forcing the bricks a part of the way out of the molds and supported by the rollers, and means for forcing the bricks all of the way out when they reach the end of the rollers.

3. The combination with a rotary brick molding wheel having molds in its outer periphery, plungers for forcing the bricks from the molds, of a conveyer below the wheel, a series of rollers arranged around the periphery of the molding wheel, and a cam for forcing the plunger a part of the way out, whereby the bricks are supported by the rollers within the molds, and means for forcing each successive brick entirely out of the mold as it reaches the last roller of the series, substantially as set forth.

4. The combination with a rotary brick machine having the usual plungers for forc-

ing the bricks from the mold, of an endless belt below the mold wheel, a series of rollers between the endless belt and the mold wheel one portion of the series of rollers arranged 5 parallel with the arc of the molding wheel, and the other portion of the series arranged at an angle to the arc of the molding wheel, and a cam arranged for operating said plungers and having a surface to correspond with 10 the arrangement of the rollers and said cam so positioned that when the plungers are forced in their outermost position the end roller of said series is adjacent one side of the mold, such as described.

15 5. The combination with a rotary brick machine having the usual plunger for forcing the bricks from the mold, an endless belt below the mold wheel, a series of rollers between the endless belt and the mold wheel,

one portion of the series of rollers arranged 20 parallel with the arc of the molding wheel, and the other portion of the series arranged at an angle to the arc of the molding wheel, the end roller of the last series having a covering of soft material, and a cam arranged 25 for operating said plungers and having a surface to correspond with the arrangement of the rollers, the said cam so positioned that when the plungers are forced into their outermost position the end roller of the said series 30 is adjacent one side of the mold, substantially as described.

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

JOSEPH WALKER.

Witnesses:

P. H. MOORE,

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