

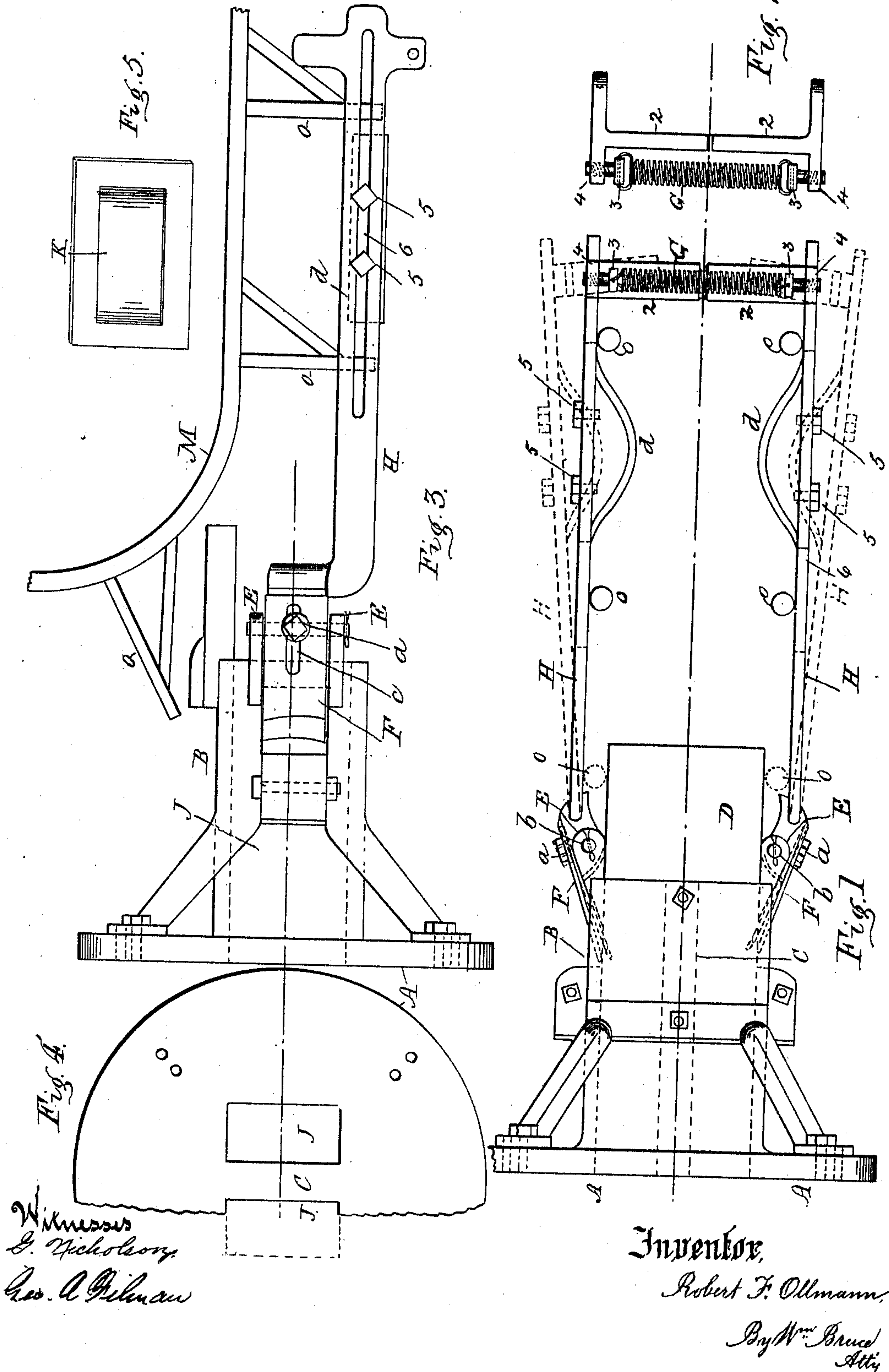
R. F. OLLMANN.

BRICK MACHINE.

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945,246.

Patented Jan. 4, 1910.



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UNITED STATES PATENT OFFICE.

ROBERT FRANK OLLMANN, OF HAMILTON, ONTARIO, CANADA.

BRICK-MACHINE.

945,246.

Specification of Letters Patent.

Patented Jan. 4, 1910.

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To all whom it may concern:

Be it known that I, ROBERT FRANK OLLMANN, a citizen of the Dominion of Canada, residing at the city of Hamilton, in the county of Wentworth, in the Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Brick-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

The invention relates to an improvement in wire cut brick machines by which the frog or groove in the center of each brick may be formed as the pliable material as clay is pressed through the brick machine.

The device consists, first, of a rectangular frame of metal, divided in two sections by means of a diaphragm forming two openings, each of the width and height of a brick of ordinary size. Second, attached to each side of the said frame or box are cast lugs to which are pivoted two slotted arms, and to the inside of said arms are two movable cams secured to the said arms by set screws, and capable of being moved back and forth as will be shown hereinafter. On the inner ends respectively of the said arms, are adjustably secured two cutting knives formed of cast iron with a steel cutter point at the cutting end of the same, to form the frog or groove in the bricks.

The present method has the grooves cut the entire length of the brick leaving open ends which is objectionable and my present method is to avoid this imperfection.

Reference being made to the accompanying drawing, in which Figure 1, is a plan view of the device. Fig. 2, is an end view of the arms and spring. Fig. 3, is a side view of the device. Fig. 4, is a partial plan view of the circular base. Fig. 5, is a plan or top view of a brick showing the frog in the central part.

In the drawing A, represents a part of a brick machine now in use.

B, is a rectangular frame divided in two sections and attached to the same, a diaphragm C, separating the two rectangular openings J, J, through which the clay passes in the process of making bricks.

E, is a lug on each side of the frame B, to each of which is pivoted an arm H, by a pin *b*. A knife F, is attached to the rear end of each by a bolt *a*, made to pass through the slot *c*, and into the arm by which

the knife can be adjusted to cut deep or shallow into the clay to make the frogs K. The said arms H, H, have their outer ends turned at right angles as shown at 2, and G, is a spiral spring attached to each arm immediately above the said ends 2 to press the said ends of the arms together, the said spring being attached to the heads of set screws 3, 3, screwed into lugs 4, 4, on the arms. *d*, *d*, are cams secured to the inner side of the arm H, by set screws 5, 5, which pass through the horizontal slot 6, on each of the said arms by means of which the cams are adjustable.

M represents in partial outline the endless carrier of a wire cutting brick machine provided with prongs *o* which when in operation are made to come in contact with the cams *d*, *d*, and thus press the outer ends of the arms H, outward as shown in dotted lines Fig. 1, which also throws the inner ends, to which the knives are attached, inward causing the said knives F, to enter the clay as it passes through the openings J, J, and scoop out the groove or frog K, in the brick, which, when accomplished, the prongs *o*, pass the cams *d*, *d*, (and the wire part of the machine cuts the clay to form the proper size of a brick but upon which part I claim nothing.)

The spring G, causes the outer ends of the arms to close and withdraw the knives from the clay, until the next prongs *o*, of the endless carrier come in contact with the cams *d*, *d*, and the operation is repeated; as the soft molds are carried on the table after the grooves or frogs are formed by the cutters F, F, the bricks are cut off with wire to the proper length desired, leaving the groove or frog in the center of each brick.

It will be further observed that this invention can be made to fit and be attached to any style of end cut brick machine or any style of cut off table machine and can be operated by cog gearing if necessary.

Having thus described my device and its advantages, what I claim as my invention and desire to secure by Letters Patent, is,

1. In combination with a brick machine having an endless carrier provided with prongs, a box divided in the center to form two openings for the ingress and egress of clay to form bricks, a lug attached to each side of said box, an opening on each side, an arm pivoted to each of said lugs, a

spring to draw the ends of the arms together, cams secured to the said arms, a cutter attached to the inner end of each said arm, the whole operated by the prongs
5 of an endless carrier for the purpose specified.

2. In combination with the endless carrier of a brick machine, a rectangular box or frame, an opening in the two sides of
10 the same, an arm pivoted on each side of the said frame or box, a knife or cutter adjustably secured to the inner end of each said arms, a spring to connect the outer end
15 of said arms and draw them together after being separated, a slot on the side of each arm, a cam attached to each arm, and adapted to slide on and be adjusted to the arm, to regulate the length of the frog or groove

in the brick, all constructed for the purpose specified.

3. In combination with the prongs of a wire cutting brick machine, adjustable cutters secured to the arms pivoted to the box or frame, adjustable cams attached to the arms, prongs of an endless carrier to operate
25 said cams to cause the said knives to enter the clay to form the frog or groove, and a spring to close the outer ends of the arms and withdraw the knives after the frog is formed in the clay.

Dated at Kingston, Ont., Canada, this 1st day of May, 1908.

ROBERT FRANK OLLMANN.

Signed in the presence of—

ARVILLA VAN SANT,

INA L. MILLER.