

M. FALCONE.  
BRICKLAYING MACHINE.  
APPLICATION FILED JULY 7, 1910.

Patented June 6, 1911.  
2 SHEETS-SHEET 1.

994,506.

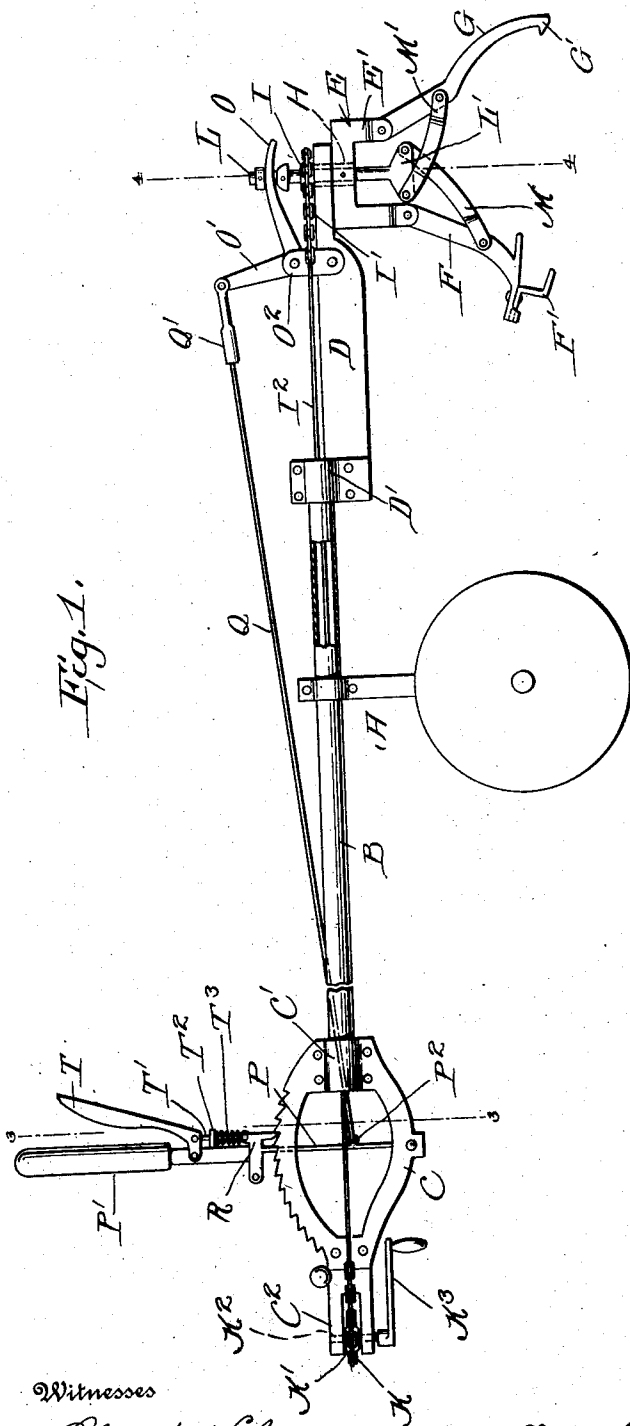


Fig. 1.

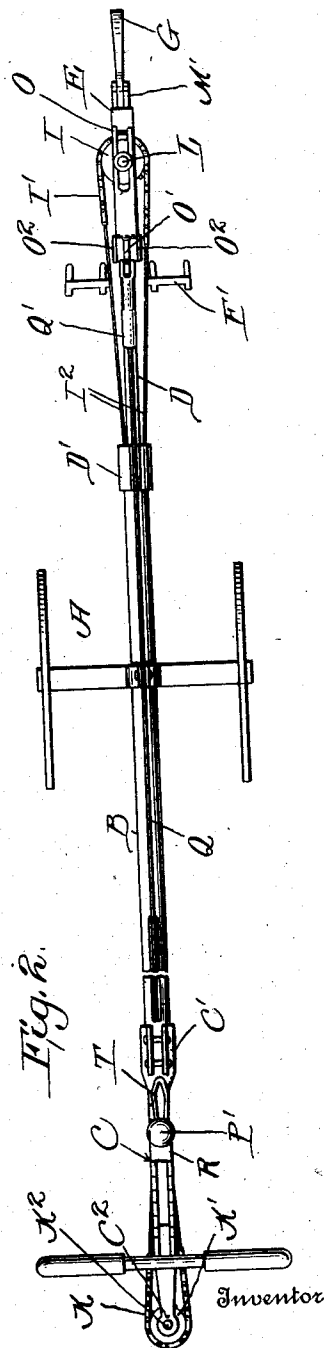


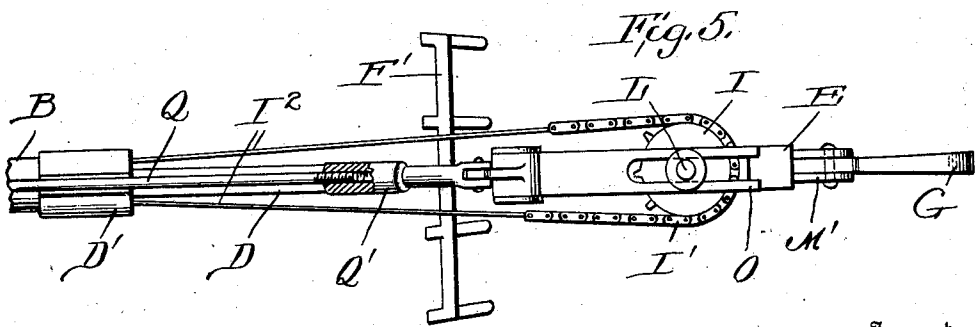
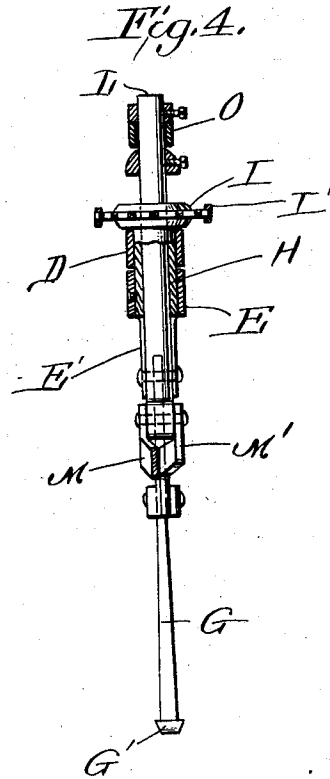
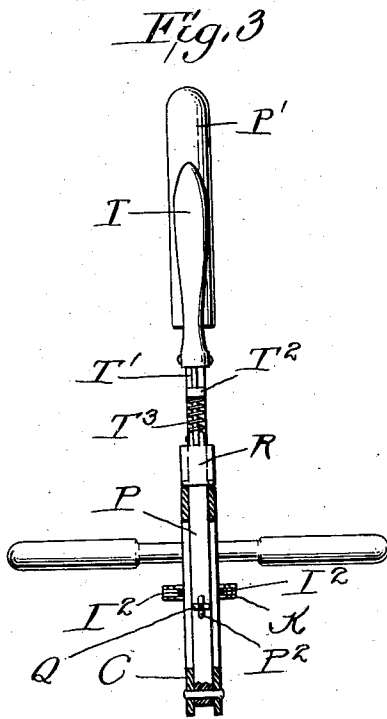
Fig. 2.

Witnesses

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# UNITED STATES PATENT OFFICE.

MICHELE FALCONE, OF COKEDALE, COLORADO.

## BRICKLAYING-MACHINE.

994,506.

Specification of Letters Patent.

Patented June 6, 1911.

Application filed July 7, 1910. Serial No. 570,848.

*To all whom it may concern:*

Be it known that I, MICHELE FALCONE, a citizen of the United States, residing at Cokedale, in the county of Las Animas and State of Colorado, have invented a new and useful Improvement in Bricklaying-Machines, of which the following is a specification.

This invention relates to certain new and useful improvements on my brick laying machine, for which patent was granted to me Nov. 23, 1909, No. 941,137, the object being to improve the general construction of the machine whereby the same can be handled with greater ease.

Another object of my invention is to improve the construction of grapple in order to allow the same to grasp a brick of any size, without adjusting the same in any way.

Another object of my invention, is to provide novel means for mounting and operating the grapple arms, whereby the brick grasped by the same will be held under tension.

With these objects in view, my invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a side elevation of my improved brick laying machine. Fig. 2 is a top plan view. Fig. 3 is a vertical section taken on line 3—3, of Fig. 1. Fig. 4 is a section taken on line 4—4, of Fig. 1. Fig. 5 is an enlarged top plan view.

In carrying out my improved invention, I employ a wheel truck A carrying a tubular member B, which is provided with a frame C at one end, and a head D at the other end, in which is pivotally mounted a grapple E. The head D, and the frame C are secured on the tubular member B, by clamp sleeves D' and C' and the head D, is held in a plane below the tubular member B, for the purpose hereinafter fully described.

The grapple E, comprises an inverted U shaped member E', having legs of different lengths provided with bifurcated end portions in which are pivotally mounted grapple arms F and G, the arm F is provided with a pivoted jaw F', and the arm G with a fixed jaw G' for grasping the brick, as will be later described. The head E' carries

a tubular sleeve portion H, which is pivotally mounted within a bearing formed in the head D, and fixed on the sleeve H, is a sprocket wheel I over which passes a chain I', and the ends of which are connected to operating cables I<sup>2</sup>, which pass through the tubular member B, and have their ends connected to the respective ends of a sprocket chain K, which is mounted on sprocket wheel K' fixed on a shaft K<sup>2</sup>, which is pivotally mounted in a bifurcated portion C<sup>2</sup> of a frame C. The shaft K<sup>2</sup> carries a crank arm K<sup>3</sup> for operating the same, and it will be seen that by turning the crank the cables will be operated so as to swing the head, in order to place the block in the desired position.

Slidably mounted within sleeve H, is an operating stem L, which is provided with an enlarged lower end L' to which are pivotally connected links M and M', which have their free end pivotally connected to the grapple arms F and G, and it will be seen that by drawing upwardly on the stem L, the grapple arms will be drawn together so as to grasp a brick and by forcing downwardly on the same they will be forced apart to release the brick. Fixed on the upper end portion of the stem L, is a pair of spaced collars between which extends the bifurcated arm O, of the crank O', which is pivotally mounted on a shaft carried by suitable bearings O<sup>2</sup> fixed to the head D, in such a manner that as the crank is rocked, the stem will be moved up and down in order to open and close the grapple arm.

Pivotally mounted in the frame C, is a spring lever P, provided with a handle P' and an apertured lug P<sup>2</sup> to which is connected an operating rod Q provided with a threaded end which is mounted in a turn buckle Q' carried by the other arm of the crank O', whereby the crank will be rocked in such a manner that the brick can be grasped and held under the tension of the spring lever, in order to obtain a firm grip on the brick at all times. A pivoted catch R, is mounted on the lever P adapted to coact with a rack portion formed on the frame C, and said catch is operated by a hand lever T, pivotally mounted on the lever P through the medium of a rod T', which extends through lug T<sup>2</sup> and is connected to the catch, as clearly shown, and is surrounded by a coil spring T<sup>3</sup> for holding the catch into engagement with the rack so when the

lever is drawn rearwardly the catch will ride over the rack and hold the lever in its adjusted position.

For facilitating the handling of the machine I provide the frame C with handles which allows the machine to be pushed from place to place, and the tube B, is so mounted on the truck A, that the same can be adjusted in respect to the truck. By this construction a brick can be grasped by the grapple arms in such a manner that it will be held firmly, in order that the same can be moved and placed in any position desired by simply operating the lever P, it will be deposited in the desired position.

What I claim is:—

1. In a brick laying machine, the combination with a pivotally mounted grapple, of means for operating the arms of said grapple and independent means for swinging said grapple.

2. In a brick laying machine, the combination with a supporting member, of a grapple pivotally carried by said supporting member, said grapple comprising a head having pivoted arms connected thereto, a stem slidably mounted in said head connected to said arms by links, and means for reciprocating said stem, so as to open and close said arms.

3. In a brick laying machine, the combination with a truck supported member, having a head at one end and a frame at the other end, of a head carrying a sleeve pivotally mounted in the head of said member, grapple arms pivotally mounted in the arms of said head, a stem slidably mounted in said sleeve, links connecting said arms to

said stem, a crank for reciprocating said stem, a sprocket mounted on said sleeve, and means carried by the frame for reciprocating said stem and rotating said head.

4. A brick laying machine, comprising a wheel supported tubular member, having a frame at one end and a head at the other end of an inverted U shaped head carrying a sleeve pivotally mounted in the head of said member, a sprocket secured on said sleeve, grapple arms pivotally carried by said head, a stem slidably mounted in said sleeve provided with spaced collars, links connecting said stems to said grapple arms, a crank provided with a bifurcated end extending over said stem between said collars, a chain passing over said sprocket, having cables connected to its end, passing through said tubular member, an operating rod connected to said crank, and means carried by the frame for operating said rod, and cables for rotating said head and reciprocating said stem.

5. In a brick laying machine, the combination with a wheel supporting member, of a grapple pivotally mounted on the end of said member, said grapple comprising pivoted arms, one arm being provided with a fixed jaw, and the other with a pivoted jaw, a stem connected to said arms by links, a crank for reciprocating said stem, a spring lever for operating said crank, and means for operating said lever in its adjusted position.

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Witnesses:

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