

(No Model.)

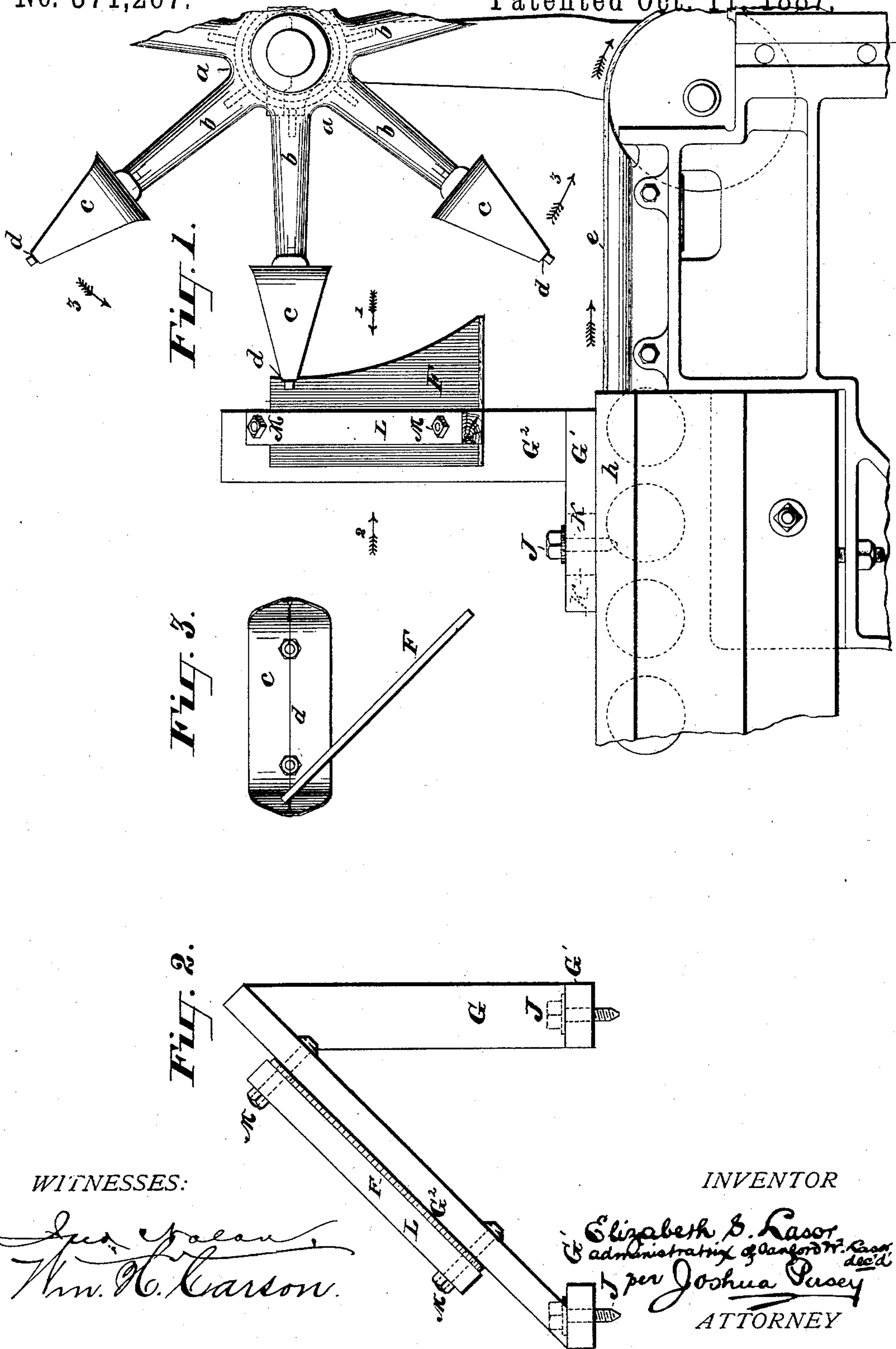
S. W. LASOR, Dec'd.

E. S. LASOR, Administratrix.

CUT-OFF WIRE CLEANER FOR BRICK MACHINES.

No. 371,267.

Patented Oct. 11, 1887.



WITNESSES:

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INVENTOR

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# UNITED STATES PATENT OFFICE.

ELIZABETH S. LASOR, OF PHILADELPHIA, PENNSYLVANIA, (ADMINISTRATRIX OF SANFORD W. LASOR, DECEASED,) ASSIGNOR TO CYRUS CHAMBERS, JR., OF SAME PLACE.

## CUT-OFF-WIRE CLEANER FOR BRICK-MACHINES.

SPECIFICATION forming part of Letters Patent No. 371,267, dated October 11, 1887.

Application filed June 26, 1886. Serial No. 206,290. (No model.)

*To all whom it may concern:*

Be it known that SANFORD W. LASOR, deceased, late a citizen of the United States and a resident of the city and county of Philadelphia, and State of Pennsylvania, has invented certain new and useful Improvements in Devices for Cleaning the Cut-Off Wires of Brick-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, of which—

Figure 1 is a side elevation of part of a wire-cut-off brick-machine provided with the invention. Fig. 2 is an elevation of the cleaner or "wiper" and its supporting-frame, looking in the direction of the arrow marked 1, Fig. 1. Fig. 3 is an elevation of one of the cut-off wires and retaining-bow and the cleaner, looking in the direction of the arrow marked 2 in Fig. 1, showing the oblique position of the cleaner with relation to the cut-off wire.

This invention relates to a device adapted to be used in connection with that class of brick-machines in which the clay is forced out in a bar through a suitable die, which bar is cut off into brick-lengths by means of wires mounted on an endless moving belt—such as shown and described in Cyrus Chambers, Jr.'s, Letters Patent No. 297,917, dated April 29, 1884—or upon a rotating wheel such as shown in Fig. 1 of the drawings hereto annexed, and which wheel forms a part of a brick-machine for which said Cyrus Chambers, Jr., has filed an application for Letters Patent, the serial number of which is 217,671.

The object of the invention is to provide a simple and efficient means for cleaning the wires of dirt, roots, &c., which heretofore frequently interfered with the nice cutting of the bar of clay by lodging upon said wires, and thus clogging the same, and it is more particularly an improvement upon the wire-cleaning device (a rotatable brush) shown and described in Letters Patent No. 318,055, dated May 19, 1885, granted to said Chambers as assignee of John N. Tricker.

The improvement consists in the combination, with the wire cut-off devices, of a flexible wiper or cleaner mounted in a suitable frame

so as to be just within the path of the wires and set at an oblique angle vertically to the stretch of the wires, so that the entire length of the latter will come gradually into contact with the edge of the cleaner, and the dirt, roots, &c., will be wiped from the wires.

The improvement also consists in minor details of construction, that will be hereinafter pointed out.

Referring now to the accompanying drawings, *a* is what I term the "cut-off"-wheel, (which takes the place of the cut-off belt in the machine described in said Letters Patent of Cyrus Chambers, Jr.) Upon the outer ends of the arms *b* of this wheel are mounted elastic steel bows *c*, which serve to retain and hold taut the cut-off wires *d*, Fig. 3. The bar of clay (not shown) rests upon the belt *e*, and as it advances thereon the wheel *a* is caused to rotate by suitable mechanism in the direction of the arrows marked 3, Fig. 1, and the wires, gradually entering the bar of clay, sever the same into bricks. This cut-off-wheel device is not, however, claimed to be the invention of said SANFORD W. LASOR, but is believed to be the invention, with the mechanism for operating it, of said Cyrus Chambers, Jr.

*F* is the cleaner or wiper, which consists of a piece or strip of india-rubber, cloth, leather, or other suitable flexible material, having its free edge curved to coincide substantially with an arc of the curve or path traveled by the cut-off wires, and is mounted obliquely to the path of the latter upon an iron frame, *G*, Figs. 1 and 2, which is secured—bolted in the present instance—to the two sides of the belt-frame *h*, the bolts *J* passing through slots *K* (indicated by dotted lines in Fig. 1) in the horizontal bases *G'*, which rest upon the top of said frame *h*. In this way the frame, and consequently the wiper, may be adjusted longitudinally to and from the wires. The cleaner-strip is secured to the oblique cross-bar *G<sup>2</sup>* of the frame by means of a clamp-bar, *L*, held by bolts *M*, whereby, obviously, said strip may be readily secured and detached, and as the edge of the strip necessarily wears away it may be set up again in proper position by first slacking up the nuts of said bolts *J*.



Having thus described the construction and arrangement of the invention, its operation requires but a brief explanation, as follows: As the cut-off wheel rotates, each of the wires thereon continuously in succession comes into contact with the projecting flexible cleaner-strip, striking it first at the top, and by the time the wire has passed beyond the lower end of the edge of said strip the latter has, so to say, gradually traversed the length of the wire, and thereby the wire has by the friction of the wiper been entirely freed of the clinging dirt, roots, &c., that would otherwise interfere with the integrity of the cut-off operation of the wire.

Having thus described the construction, arrangement, and function of the invention, that which is claimed as new and useful, for which Letters Patent are desired, is—

1. In combination with a brick-machine of the class recited, a wiper, consisting of a sheet of india-rubber or other like flexible material, having its edge arranged and held obliquely with relation to the path of the cut-off wires, substantially as shown, whereby the wires successively shall be swept by said wiper in the course of their rotation.

2. A cleaner for cut-off wires of brick-machines of the class recited, consisting of a piece of india-rubber or similar flexible material mounted obliquely in a suitable frame, substantially as and for the purpose set forth.

3. In a cut-off-wire cleaner for brick-machines, the combination of the flexible wiper, the frame having the oblique cross-bar  $G^2$ , the clamp-bar L, and bolts M, substantially as and for the purpose set forth.

4. In a cut-off-wire cleaner for brick-machines, the combination of the frame, the flexible strip, means for securing said strip obliquely, and means for longitudinal adjustment of said frame, substantially as and for the purpose described.

In testimony whereof I have hereunto affixed my signature this 19th day of June, A. D. 1886.

ELIZABETH S. LASOR,  
*Administratrix.*

Witnesses:

C. H. COCHRAN,  
D. J. McDONOUGH.