(No Model.)

G. L. DOTY.

BRICK MOLD BUMPER AND PALETTE HOLDER COMBINED.

No. 284,727. Patented Sept. 11, 1883.

Fig. 1.

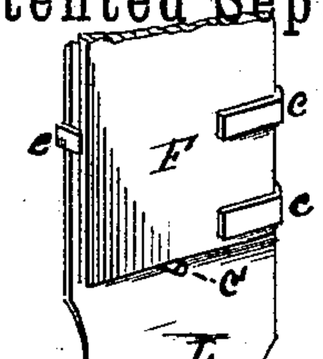

Fig. 2.

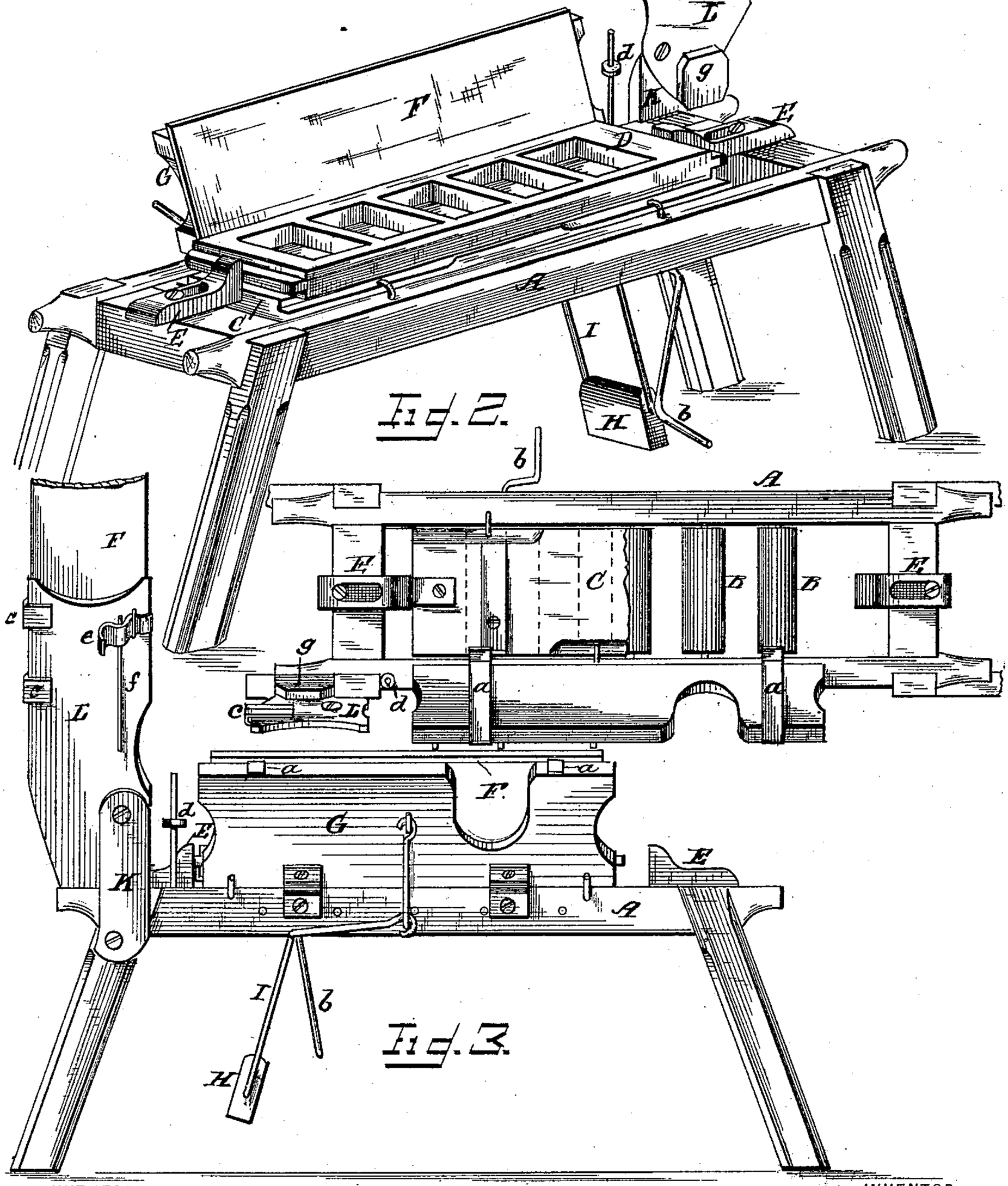

Fig. 3.

WITNESSES

N. E. Oliphant

L. L. Miller

INVENTOR

George L. Doty.

per Chas. H. Fowler

Attorney

UNITED STATES PATENT OFFICE.

GEORGE L. DOTY, OF MIDDLETOWN, OHIO.

BRICK-MOLD BUMPER AND PALETTE-HOLDER COMBINED.

SPECIFICATION forming part of Letters Patent No. 284,727, dated September 11, 1883.

Application filed June 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. DOTY, a citizen of the United States, residing at Middletown, in the county of Butler and State of Ohio, have invented certain new and useful Improvements in a Mold-Bumper and Palette-Holder Combined; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention; Fig. 2, a top plan view, and Fig. 3 a rear side elevation.

This invention relates to certain new and useful improvements in a mold-bumper and palette-holder, the object thereof being to provide a portable device of this character for use in the manufacture of bricks by machinery that will be simple in its construction, and easy and effective in its operation to loosen the bricks in their molds and place them on the palettes, ready for off-bearing, without altering their symmetry. This object I attain by the construction substantially as shown in the accompanying drawings and hereinafter described.

In the drawings, A represents a suitable bench, provided with rollers B, on which rests and oscillates a guide-board, C, for the reception of the molds D, though, if desired, the guide-board may be omitted and the molds placed directly on the rollers, the object and purpose of said guide-board being to prevent wear and tear upon the molds.

At the ends of the bench A are adjustably secured bumpers E, against which the molds strike when oscillated from right to left, for the purpose of loosening the bricks. After the bricks have been thus thoroughly loosened, a palette, F, being in position upon rests *a*, secured to a hinged table, G, the molds containing said bricks are turned over and dumped thereon, said table being normally held in nearly a vertical position by a weight attached to a crank-lever, I, connecting at its back and extending outwardly from the front of the machine, as shown at *b*, so as to be easily worked, when necessary, by the operator's knee or foot. The loaded molds being heavier than the weight H causes the hinged table G to assume a horizontal position. The molds are then removed, leaving the bricks upon the palette F, already in position upon said table. The palette, with the bricks, being borne off, the table by action of its weight automatically returns to its vertical or normal position.

Pivotally secured to a standard, K, at one end of the bench A, is an automatic palette-holder, L, provided with spring-clamps *c*, and a stop, *c'*, for retaining the palette in position ready to drop in place upon the table G as it returns to its normal situation after the molds and bricks have been removed therefrom, said palette and holder having been dropped to a horizontal position while the filled palette is at rest on the table, the holder resting on a suitable stop, *d*, when thus horizontally depressed. A catch, *e*, is secured to the back of the palette-holder, and is controlled by a spring-rod, *f*, said catch bearing against the left or lower edge of the palette when in place upon the holder. As the table G returns toward its normal position, it comes in contact with the catch *e*, and depresses the same, so that it will disengage and allow the palette to drop in place thereon, and the holder L, being provided with a weight, *g*, at its lower end, rises to its upright situation, out of the way of the workmen and ready for the reception of another palette.

By the employment of a device of the character described in connection with brick-machines the same may be worked in the drying-sheds, and thus save the wear and tear usual to the palettes by having to transfer them to and from the machines at a distance away from the drying sheds or grounds, and said device, being light, is easily moved from one place to another.

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

1. A combined mold-bumper and palette-holder for brick-machines, consisting of a suitable bench provided with rollers adapted to receive a guide-board or mold, the adjustable bumpers secured to the ends of said bench, a weighted hinged table operated by a crank-lever, and a weighted holder for spare palettes, pivotally secured to the bench, substantially as and for the purpose set forth.

2. The combination, with the bench A, provided with rollers B, and a weighted hinged

table, G, operated by a weighted crank-lever, I, of the adjustable bumpers E and the automatic palette-holder L, substantially as and for the purpose specified.

3. The combination, with the bench A, having rollers B, adjustable bumpers E, and weighted hinged table G, of the guide-board C, mold D, and the palette-holder L, pivotally secured to the bench, and provided with spring-clamps *c*, stop *d*, catch *e*, and spring-rod *f*, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE L. DOTY.

Witnesses:
J. M. LA TOURRETTE,
W. H. TODHUNTER.