No. 684,576. Patented Oct. 15, 1901.

G. A. LUCAS.

TROWEL.

(Application filed Feb. 9, 1901.)

(No Model.)

FIG. 1.

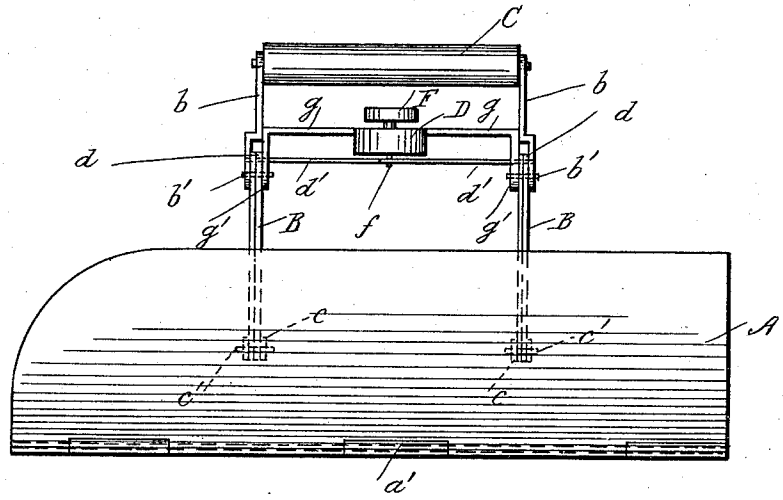


FIG. 2.

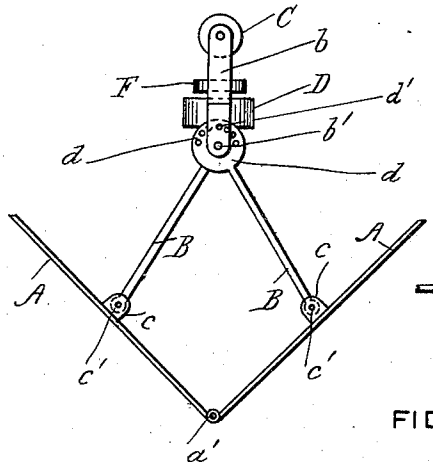


FIG. 3.

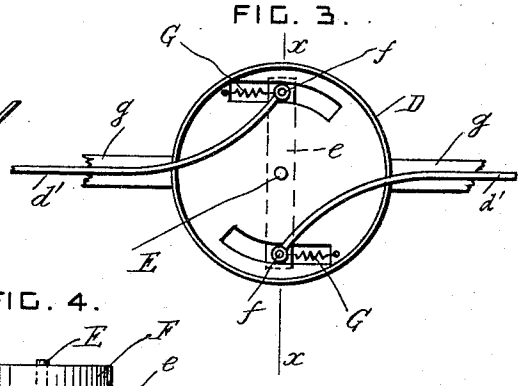
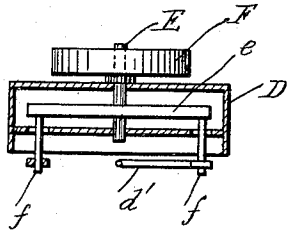


FIG. 4.



WITNESSES

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TROWEL.

SPECIFICATION forming part of Letters Patent No. 684,576, dated October 15, 1901.

Application filed February 9, 1901. Serial No. 46,630. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. LUCAS, a citizen of the United States, residing at South Hanover, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Trowels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to trowels; and it consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of the trowel. Fig. 2 is an end view. Fig. 3 is a plan view of the catch mechanism. Fig. 4 is a cross-section taken on the line x x in Fig. 3.

This trowel is specially adapted for smoothing the plaster in the corners of rooms.

A represents two plates, which are set at an angle and are connected together by a hinge a', so that no portion of the hinge projects beyond their outer surfaces.

B represents arms which are pivoted together and to handle-bars b by pivots b'. These arms are also pivoted to lugs c on the plates A by pins c'. These arms have plates d around their pivots b', which are provided with holes for the locking-rods d'.

C is the handle, which is secured between the two handle-bars b. When the locking-rods are retracted, the arms may be turned on their pivots b', so that the plates A can be set at any angle to suit the corner of the room; but when the locking-rods are not retracted the handle, handle-bars, arms, and plates are all secured together rigidly.

D is a guide-cylinder secured to bars g, the outer ends g' of which are bent downward and also assist in supporting the locking-rods and the pivots b'. The outer ends of the bars g are secured to the handle-bars b in any approved manner. The locking-rods are retractible and are provided with catch mechanism of approved construction.

E is a shaft journaled in the cylinder D and provided with a cross-bar e inside it.

F is a knob for turning the shaft E, secured on its projecting end above the cylinder. Two pins f project from the end portions of the cross-bar e through slots in the bottom of the cylinder, and the locking-rods d' are pivoted to these pins.

G represents springs inside the cylinder which normally hold the locking-rods in engagement with the plates d, so that the plates A cannot turn on their pivot. The locking-rods are retracted by turning the knob F, and when retracted the plates A can be set at various angles to suit the corners of the room.

What I claim is—

1. In a trowel, the combination, with two hinged plates, of a handle, handle-bars supporting the handle, arms pivoted to the handle-bars and to the said plates, and rods projecting through holes in the overlapping portions of the said handle-bars and arms and operating to lock the said plates at various angles, substantially as set forth.

2. In a trowel, the combination, with two hinged plates, of a handle, handle-bars supporting the handle, arms pivoted to the handle-bars and to the said plates, locking-rods engaging with holes in the upper end portions of the said arms, and catch mechanism for operating the said locking-rods supported by the handle-bars under the handle, substantially as set forth.

3. In a trowel, the combination, with two hinged plates, of a handle, handle-bars supporting the handle, arms pivoted to the handle-bars and to the said plates, a guide-cylinder, bars securing the guide-cylinder to the handle-bars under the handle, a shaft journaled in the said cylinder and provided with an operating-knob, a cross-bar secured on the said shaft inside the cylinder and provided with projecting pins, locking-rods pivoted to the said pins and engaging with holes in the upper ends of the said arms, and springs for holding the locking-rods in engagement with the said arms, substantially as set forth.

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

GEORGE A. LUCAS.

Witnesses:
ALICE J. MURRAY,
FREDERICK K. DAGGETT.