

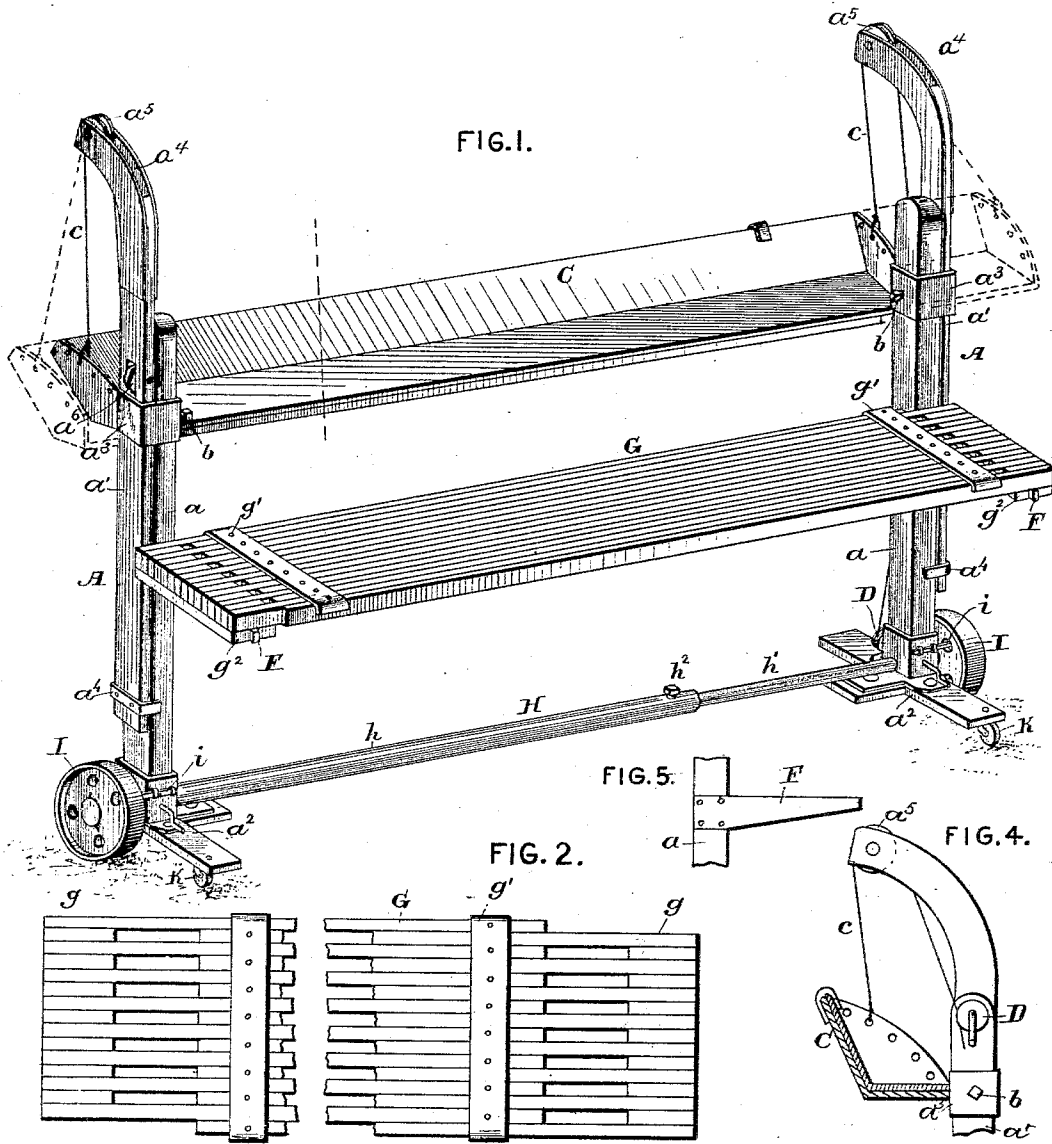
(No Model.)

T. H. BROWN.

PLASTERING, CALCIMINING, AND PAINTING MACHINE.

No. 315,902.

Patented Apr. 14, 1885.



ATTEST.

*J. Henry Kaiser.*  
*Harry L. Ames.*

FIG. 3.



INVENTOR.

*Theodore H. Brown*  
*by L. Deane.*

# UNITED STATES PATENT OFFICE.

THEODORE H. BROWN, OF VIROQUA, WISCONSIN, ASSIGNOR OF ONE-HALF  
TO H. C. FORSYTH, OF SAME PLACE.

## PLASTERING, CALCIMINING, AND PAINTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 315,902, dated April 14, 1885.

Application filed October 24, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, THEODORE H. BROWN, a citizen of the United States, residing at Viroqua, in the county of Vernon and State of Wisconsin, have invented certain new and useful Improvements in Plastering, Calcimining, and Painting Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of this device. Fig. 2 is a detail of the foot-board. Fig. 3 is a detail of the lower extensible rod; Fig. 4, a detail showing modification of means for raising and lowering the device; Fig. 5, a detail of the foot-board bracket.

This invention belongs to that class which is designed to provide means for raising or lowering the materials used in plastering, and any like or analogous work of building or repairing; and the novelty consists in a device in which the load, mortar, or other material to be used can be raised or lowered or adjusted horizontally at will, and in conjunction therewith an adjustable stand or support for the workman, also adapted to be raised or lowered or extended horizontally, all as will now be more fully set out and explained, reference being had to the accompanying drawings, in which like letters designate like parts.

The two posts A A stand, respectively, at each end or side, and are composed of two or more pieces,  $a a'$ . These may be made of any desired material, and in any way or manner, so long as the one part shall move up and down on or telescope in the other. I have now shown how this may be done by fixing the lower and stationary part,  $a$ , in its base or seat  $a^2$ , and providing guides  $a^3 a^4$  to hold and regulate the up and down movements of the part  $a'$ . This part can be held at any height by means of the set screws or clamps  $b$  in the guide  $a^3$ . The upper portion,  $a^1$ , of this movable part is curved.

The trough or hod C is made of two longitudinally-extensible parts secured together in such manner that the trough or hod can be lengthened or shortened as circumstances require. This trough or hod C is suitably suspended or held by ropes or chains  $c$ , attached at one end to it on each side and at their other ends to windlass D, or like means in or upon

the base of the part  $a^2$ ; or there may be but one windlass, which may be suitably attached to the top of either fixed part  $a$ , and the rope or chain  $c$ , attached at its ends to the hod C, can be so placed upon and over this windlass that it alone will serve to raise or lower both ends of the trough or hod simultaneously. In this latter instance there will be placed a pulley in each base  $a^2$ , over which the rope or chain may run as it passes to the windlass. Suitable pulleys,  $a^5$ , are provided at the upper ends of the movable parts  $a'$  for the ropes or chain to pass over. The hod or trough C is usually of a somewhat Y shape, and of any desired size to be fitted and moved between its sustaining-posts.

On the brackets or arms F, which are fixed to the lower ends of the movable piece  $a'$ , the foot-board G is supported. This foot-board is so made as to be horizontally extensible. I have now shown in the drawings a way by which this can be done, where a series of wooden strips,  $g$ , are fastened together at one end, and mesh with another like series, each series when so placed in conjunction being fastened together by the enveloping-straps  $g'$ , which not only serve as a stop, but a securing-band and a guide. On the under side of this foot-board are ways  $g^2$ , by which it can be suitably placed in a fine position on the brackets. I do not, however, mean to limit myself to any particular form of construction, so long as I gain the end of securing an extensible foot-board. The bases  $a^2$  are connected together by the rod H, made of two pieces,  $h h'$ , which telescope or otherwise move in or on each other, so as to allow any desired horizontal separation of the posts A A. The set-screw  $h^2$  affords means of locking these pieces  $h h'$  upon each other and holding them fast in any desired position. The base  $a^2$  is also provided with traveler-rollers I and casters K, so that the device can be very easily moved when and as desired. The traveler-rollers can be locked in position by means of bolts  $i$ , and thus prevent any accidental movement of the machine when it is in use. The bases  $a^2$  extend inwardly sufficiently far to act as buffers to prevent the device being pushed too near the wall or other place where the work is being done.

In the fixed part  $a$  of the posts or in  $a'$  there

may be anti-friction rollers  $a^6$ , to render the movements of these parts on each other more easy.

In order to adapt the device to use in considerable heights, the posts A may be made of many extensible pieces, as desired. They can telescope or be otherwise adjusted upon each other, so long as the extensible idea is preserved.

Usually it may be desirable to make the device of wood, so as to secure the ends of lightness and cheapness; but the device can be built in very excellent shape of metal or of combined wood and metal.

In this device I have provided an efficient machine or means for enabling the workman who is plastering, calcimining, laying bricks, or engaged in any like or analogous work, to adapt and adjust himself and the materials with which he is working to any desired height of room or building. Thus the use of heavy and expensive and cumbersome scaffolding, of ladders, and the hod-carrier can in a very great degree, if not fully, be dispensed with.

The device is very simple in its structure, is not likely to get out of order easily, and is very excellent for all the uses and purposes for which it is designed.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

1. In a device as described, and in combination with its base  $a^2$ , the rollers and casters, as and for the purposes set forth.

2. The combination, with a vertically and longitudinally extensible frame or scaffold, as described, of a longitudinally-extensible trough or hod, and means for raising and lowering the same, as specified.

3. A vertically and longitudinally extensible scaffold or frame mounted on wheels and provided with a longitudinally-extensible foot-board, substantially as described.

4. The combination of extensible posts A with the extensible trough C, and means for raising and lowering the same, the extensible foot-board G, and brackets F, substantially as described.

5. The combination of extensible posts having curved portions  $a' a'$ , the extended bases for said posts, and a hod or trough suspended from said curved portions, substantially as described.

6. The combination, in a portable scaffold, of the following instrumentalities: vertically-extensible posts mounted on rollers, an extensible foot-board, an extensible tie-rod, H, an extensible hod or trough, and means for elevating and lowering the same and holding it at any desired height, substantially as described.

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

THEODORE H. BROWN.

Witnesses:

JOHN W. CURRY,  
C. A. ROBERTS.