

P. T. LEMASTER.
FLOOR SURFACING DEVICE.
APPLICATION FILED SEPT. 3, 1908.

948,927.

Patented Feb. 8, 1910.

2 SHEETS—SHEET 1.

Fig. 1

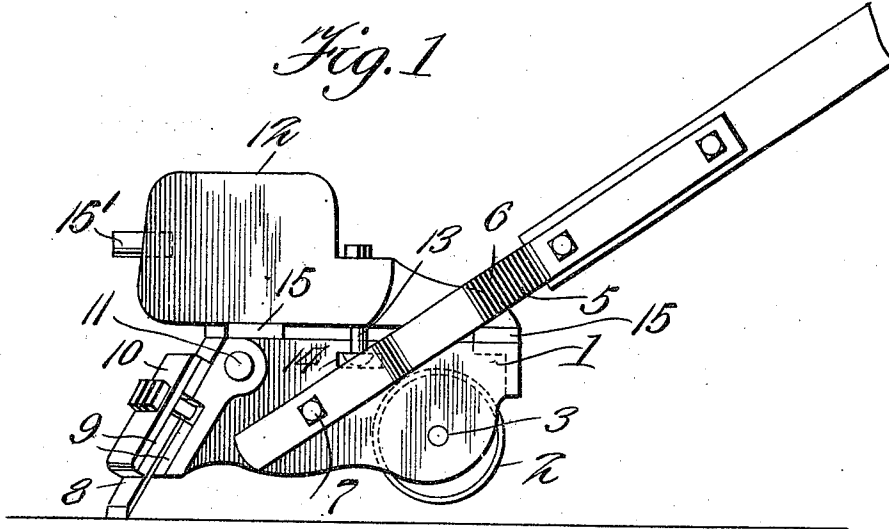


Fig. 2.

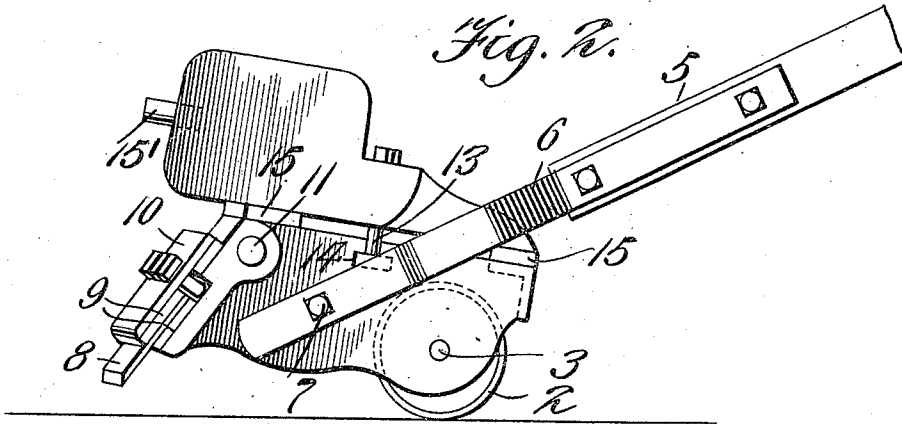
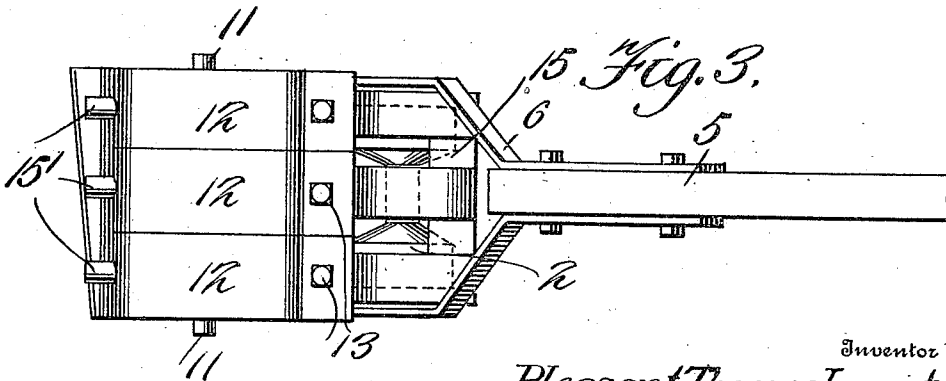


Fig. 3.



Witnesses
Ed. A. Schmidt
Ed. A. Schmidt

Inventor
Pleasant Thomas Lemaster

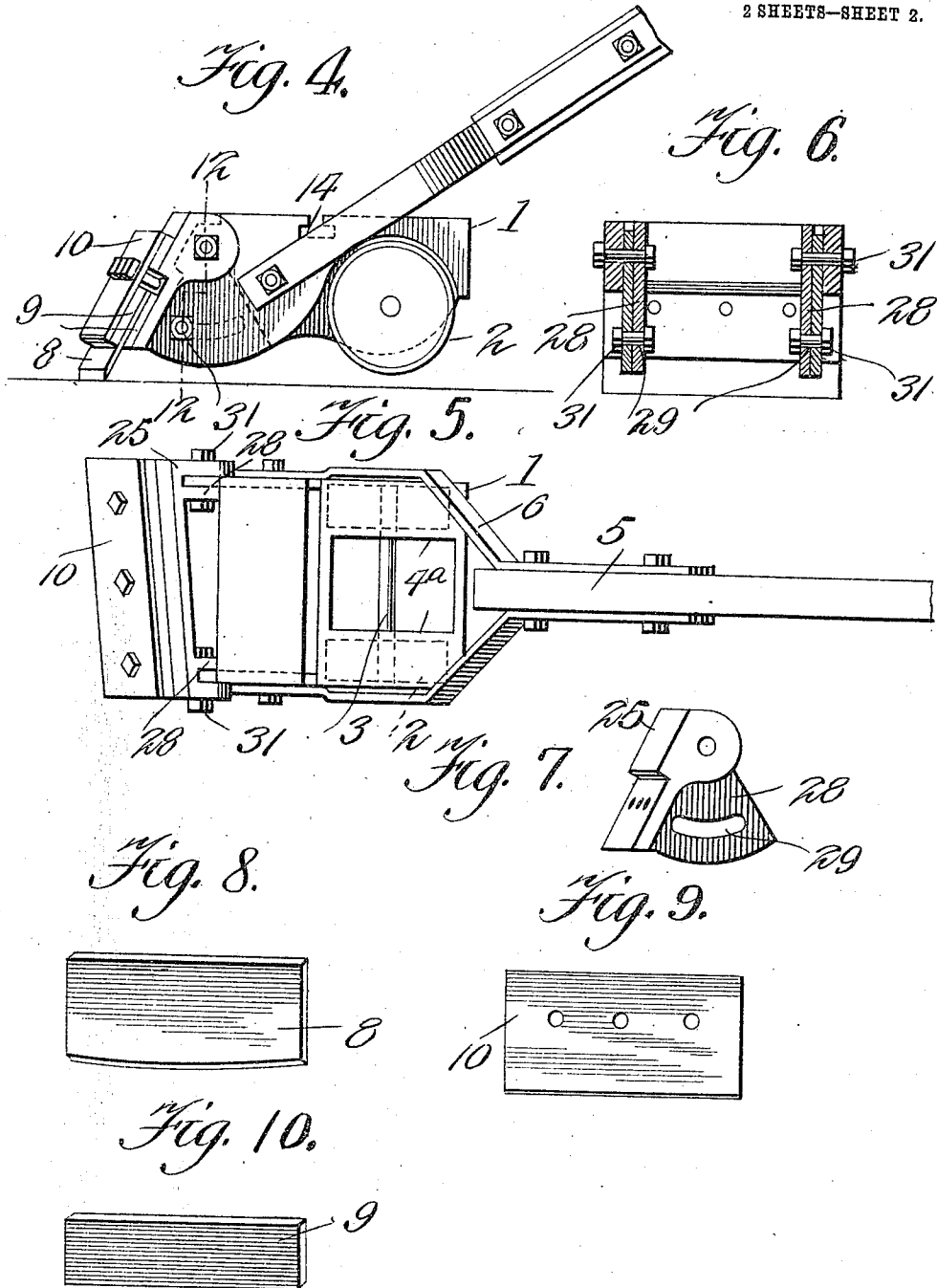
By *Victor J. Evans*
Attorney

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2 SHEETS—SHEET 2.



Witnesses
H. A. Schman, Jr.
W. J. Noerth

Inventor
Pleasant Thomas Lemaster
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

PLEASANT THOMAS LEMASTER, OF SPARTANBURG, SOUTH CAROLINA.

FLOOR-SURFACING DEVICE.

948,927.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PLEASANT THOMAS LEMASTER, a citizen of the United States, residing at Spartanburg, in the county of Spartanburg and State of South Carolina, have invented new and useful Improvements in Floor-Surfacing Devices, of which the following is a specification.

This invention relates to floor surfacing devices, and one of the principal objects of the same is to provide a simple, reliable and efficient device for scraping, sand papering and polishing floors in which the scraper blade will be set at an angle to the machine frame so as to provide a shearing action of the blade, the scraper blade being secured between elastic cushions whereby a smooth and almost noiseless action is obtained when the device is in operation.

Another object of the invention is to provide a wheeled frame mounted on two wheels and having a scraper set between elastic surfaces and at an angle to the frame in front, and to provide means whereby the scraper frame may be mounted upon a sand paper holder so that the latter may be used for sand papering the floor after it has been properly scraped.

With these and other objects in view the invention resides in the novel construction of elements and their arrangement in operative combination hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a floor surfacing device constructed in accordance with the present invention, illustrating the same in a position to be drawn rearwardly to make a cut. Fig. 2 is a similar view illustrating the device in position to be pushed forward to obtain a new bite. Fig. 3 is a top plan view of the same. Fig. 4 is a side elevation of a slightly modified form of the device. Fig. 5 is a top plan view of the form illustrated in Fig. 10. Fig. 6 is a transverse sectional view upon the line 12—12 of Fig. 10. Fig. 7 is a side elevation of the front plate of the frame. Fig. 8 is a perspective view of the knife. Fig. 9 is a front elevation of the retaining plate. Fig. 10 is a perspective view of one of the elastic cushions.

Referring to the drawings for a more specific description of my invention the numeral 1 designates a substantially rectangular frame, the front of which, however, is angular with respect to the sides thereof

for a purpose which will presently appear. This rectangular frame is mounted upon wheels 2, and said wheels may be provided with a cushioned tire of leather or rubber. The wheels shown in Fig. 3 are mounted upon an axle 3 spaced apart by a central sleeve 4. In Fig. 11 the wheels 2 are mounted on an axle 3 and are held separated by means of the partitions 4^a.

A handle 5 for operating the device is provided with oppositely disposed metal straps 6 which are bolted at 7 to the opposite sides of the frame. The bolt 7 may be loosened and the handle adjusted as to heights of different persons, as will be obvious.

Secured to the front angular end of the frame is a scraper blade 8. This scraper blade is secured in an elastic grip between rubber or leather strips 9, the strips being retained in position through the medium of a retaining plate 10. The plate 10 is provided with a plurality of openings adapted to aline with threaded openings provided in the front plate of the frame, and these openings are adapted for the reception of suitable bolts or other retaining elements by which the plate 10 is securely retained upon the front end of the frame and whereby the blade 8 is retained in locked position between the cushions 9. Rubber buffers 11 are secured at the sides of the frame to prevent marring of the base board or side walls in the operation of the machine. Suitable weights 12 are secured to the top of the frame by means of bolts 13. The top of the frame is provided with a T-shaped slot 14 running transversely of the frame, and the heads of the bolts 13 are adapted to engage between the horizontal walls provided by the T-shaped slot, thus providing means whereby the weights may be quickly and easily positioned upon the frame. The weights 12 may vary in weight to agree with the different classes of work for which the machine is adapted and these weights are made heavier over their front and cut away at their rear and at their sides so as to impart sufficient weight directly over the cutting blade. It is to be understood that any desired number of these weights may be employed to agree with the hardness of the floor to be scraped or the depth of the cut required. These weights are adapted to rest upon resilient cushions 15 whereby all jar incident to the operation of the device is

successfully obviated. The weights 12 are each provided with a forwardly projecting buffer, constructed of rubber or other suitable resilient material, and designated by the numeral 15'. These buffers are provided to serve as an effective means for preventing the device marring the plastering upon the walls as the machine is moved forward to obtain a bite upon the floor adjacent the base board.

In Figs. 4 and 5 there is illustrated a slightly modified form of construction. In these figures the front 25 of the frame is made separate, so that the knife carried by the front may be adjusted with respect to the floor to a desired angle. The front 27 has two rearwardly extending wings 28, provided with arcuate slots 29 and adapted to engage between the sides of the frame and are adapted to receive suitable bolts 30 provided with nuts 31 secured upon the outside of the sides of the frame, and by which the front 25 is adjustably secured to the sides of the frame. The front 25 is pivoted to the frame through the medium of suitable pintles 32 engaging perforations provided upon ears integrally formed upon the upper portion of the ends of the front plate 25.

The invention is simple in construction, can be quickly altered or adjusted to any desired kind of work for which it is intended, can be successfully used by unskilled persons and can be produced at a comparatively small cost.

It is to be understood that in operating the machine the wheels are lifted from the ground and the machine pulled toward the operator. When the machine is to take a fresh bite it is pushed forward upon its wheels, the blade being elevated from the floor until the device is properly positioned at the desired point, when the operation of scraping is repeated.

Having thus fully described the invention what is claimed as new is:

1. In a device of the character described, a frame mounted on wheels, said frame having its top provided with an inverted T-shaped slot, a scraper blade adjustably and

yieldably secured at an angle to the frame, weights superposed upon the frame, said weights having headed adjustable members adapted to engage the T-shaped slot of the frame, resilient buffers projecting forwardly from the weights and resilient buffers upon the frame arranged at right angles to the buffers upon the weights.

2. In a device for surfacing floors, a frame mounted upon wheels, said frame comprising a pair of side members, one of a greater length than the other, the said members having their upper portions provided with aligning T-shaped openings and their forward portions provided with orifices, a front member having its upper portion provided with ears pivotally connected with the orifices of the sides, said front member having its rear portion provided with wings having arcuate slots and adapted to lie adjacent the side members of the frame, securing elements upon the sides whereby the front may be retained in its swung position, a knife blade resiliently connected with the front, weights provided with forwardly projecting buffers superposed upon the frame, said weights having their rear portions reduced and provided with openings, and threaded members having heads adapted to engage the T-shaped slots of the sides and the openings of the weights and to be engaged by threaded nuts to retain the weights upon the device.

3. In a device for surfacing floors, a frame mounted upon wheels, said frame being provided with an angular front, a scraper blade being provided with resilient cushions upon the front, a retaining plate secured to the front and adapted to retain the blade and cushions in position thereon, cushions upon the top of the frame, and removable weights mounted upon the cushions and secured to the frame.

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

PLEASANT THOMAS LEMASTER.

Witnesses:

JOHN E. THOMAS,
SAM C. THOMAS.