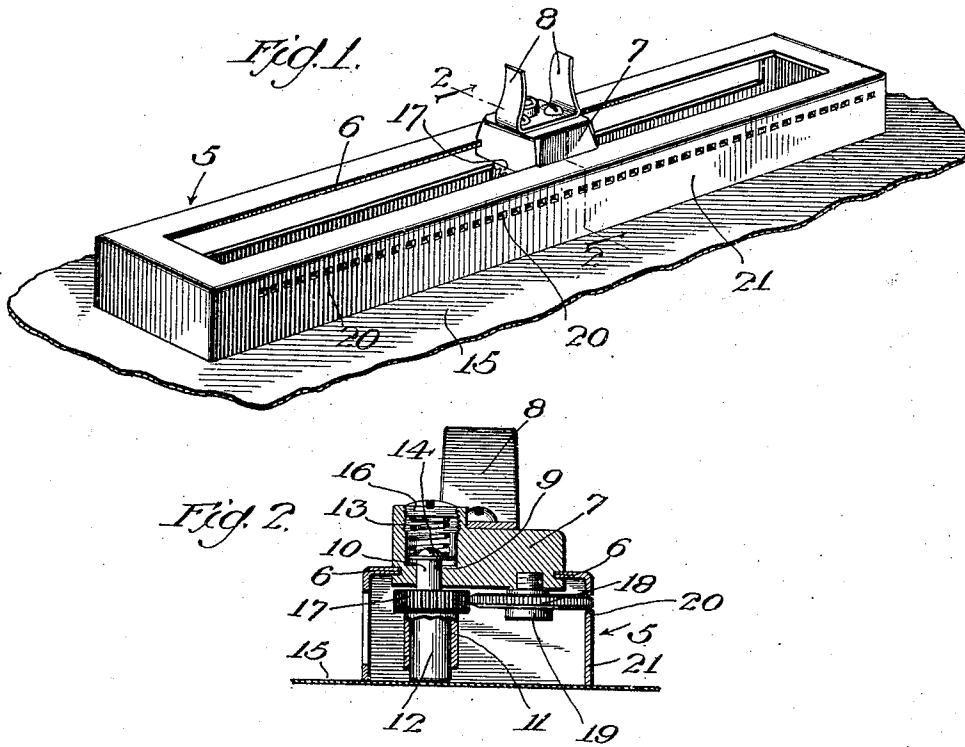


J. S. THURMAN.
ERASER.

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938,725.

Patented Nov. 2, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

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ERASER.

38,725.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, JOHN S. THURMAN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Erasers, of which the following is a specification.

This invention consists in the construction of an eraser to combine a reciprocating or forward movement of the eraser with a rotary movement thereof. By means of this double motion an erasure may be made quickly and evenly and in an efficient manner which is impossible with either of the motions taken singly. To this end I employ a guide which forces the eraser to be operated by the hand in a straight line and thus confines its action to the desired area and the eraser is rotated by virtue of its reciprocal movement on the guide, any convenient connecting means being employed.

I accomplish the above by means of the device described herein and illustrated in the accompanying drawings, in which:—

Figure 1,— is a perspective view of my improved eraser. Fig. 2,— is an enlarged cross section taken on line 2—2 of Fig. 1.

Referring to the drawings 5 designates a rectangular guide frame which may be constructed of any suitable material and which is provided with a longitudinal slotted guideway 6 in its upper face. This guideway extends approximately the whole length of the frame and is adapted to carry a slider 7 mounted therein. Slider 7 is provided with finger tabs 8 which are adapted to be grasped by the operator so that the slider may be reciprocated in the guideway.

Journalled in a vertical bore 9 in the lower part and at one side of the slider 7 is a stud 10 which carries on its lower end a preferably hollow cylindrical eraser holder 11 adapted to hold an eraser 12. A spring 13 presses downwardly against a washer 14 which is secured to the upper end of stud 10 and holds eraser 12 in resilient contact with the surface of paper 15 on which an erasure is desired to be made. The pressure of this spring may be regulated by the adjustment of a screw cap 16 above the spring so that the eraser presses with the proper force against the surface of the paper. A small gear 17 is rigidly mounted on stud 10 and meshes with a gear 18 which is mounted on a stationary stud 19 secured to the under

face of slider 7. A rack 20 is cut or punched in side 21 of frame 5 and gear 18 is adapted to mesh with this rack, so that upon the reciprocation of the slider the eraser will be rotated through the medium of gears 17 60 and 18.

From the foregoing description it will be observed that I have provided a simple and reliable means of rotating an eraser by virtue of its longitudinal or reciprocating move- 65 ment.

The construction above set forth provides a means for directing the eraser in a straight line and for confining its action to a given space and also provides for the rotation of 70 the eraser while it is being reciprocated. By means of the combination of these two movements an erasure is quickly and efficiently consummated without excessive abrasure of the surface at any particular point, the 75 eraser acting evenly and uniformly on the area over which it passes.

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

1. A device of the class described, comprising a frame provided with a guideway, a slide adapted to reciprocate in said guideway, a spring pressed eraser holder rotatively mounted on said slide, and gear connections between said frame and holder to rotate said eraser holder. 80

2. A device of the class described, comprising a frame, a slide mounted on said frame, a rotatable spring pressed eraser 90 holder mounted on said slide, and gear connections between said eraser holder and said frame to rotate said eraser holder.

3. A device of the class described, comprising a frame provided with a guide-way, 95 a slide adapted to reciprocate in said guideway, an eraser holder rotatively mounted on said slide, gear connections between said frame, slide, and holder to rotate said eraser holder, and means to automatically feed 100 said holder downwardly as the abrasive substance is worn away.

In witness that I claim the foregoing I have hereunto subscribed my name this 27th day of January, 1908.

J. S. THURMAN.

Witnesses:

EDMUND A. STRAUSE,
OLLIE PALMER.