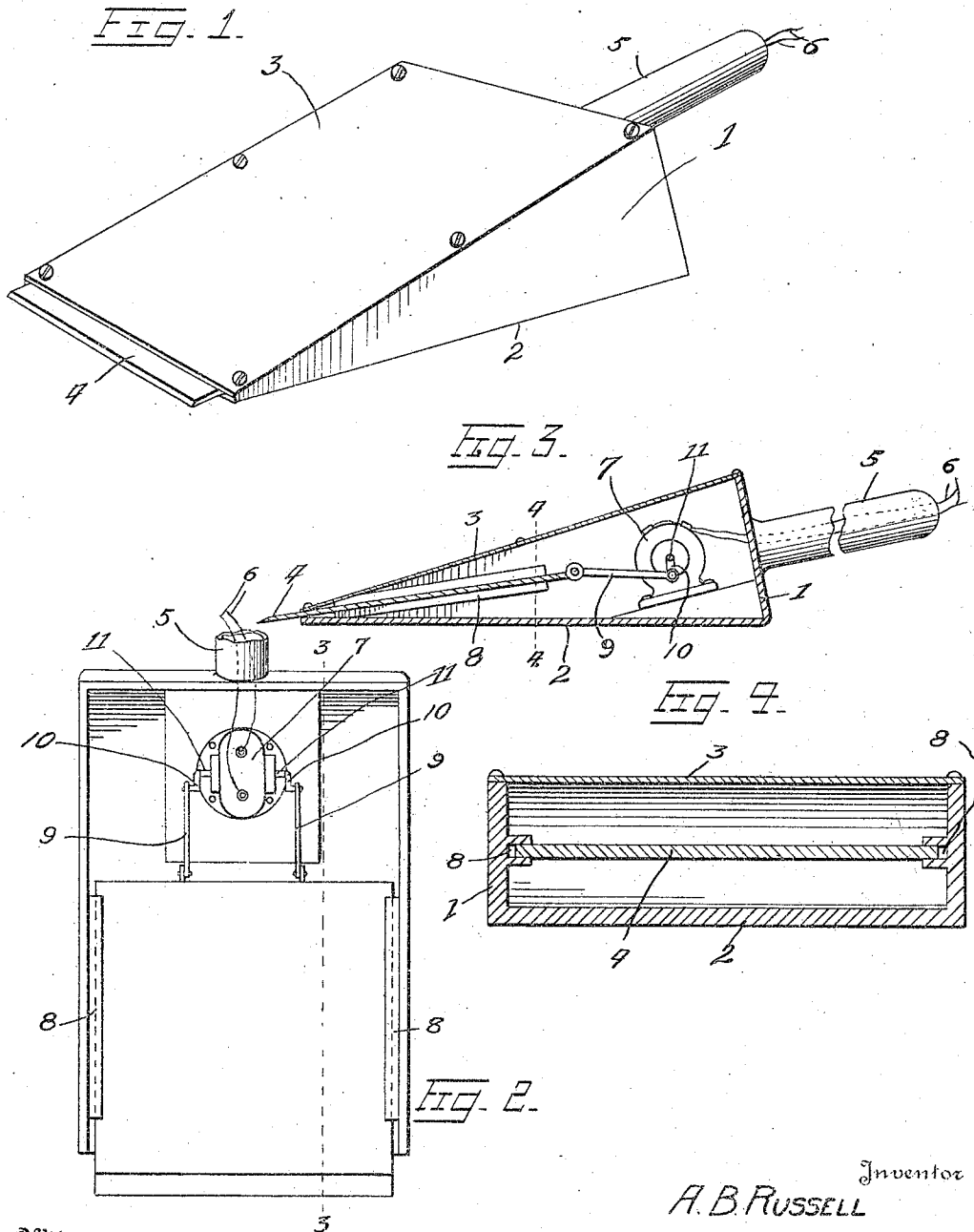


A. B. RUSSELL.
PAPER REMOVING MACHINE.
APPLICATION FILED DEC. 26, 1916.

1,242,479.

Patented Oct. 9, 1917.



Witnesses
H. Moore
[Signature]

Inventor
A. B. RUSSELL

By [Signature] [Signature]

Attorneys

UNITED STATES PATENT OFFICE.

ALVIN B. RUSSELL, OF BROOKLYN, NEW YORK.

PAPER-REMOVING MACHINE.

1,242,479.

Specification of Letters Patent.

Patented Oct. 9, 1917.

Application filed December 26, 1916. Serial No. 138,920.

To all whom it may concern:

Be it known that I, ALVIN B. RUSSELL, a citizen of the United States, residing at Brooklyn, in the county of Kings, State of New York, have invented certain new and useful Improvements in Paper-Removing Machines; 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 paper removing machines, and has particular reference to a machine for removing wall paper from plastered surfaces.

The object of the invention is to provide a simple and compact hand tool which may be run over a wall surface, substantially in the same manner in which an ordinary scraper knife is run over a wall to remove the paper, but which will relieve the operator of the necessity of rapidly and forcibly reciprocating the blade below the paper, the knife reciprocation in my invention being accomplished by a suitable motor.

A further object of the invention is to construct a machine of this character in such a manner that there is no danger of the blade being jabbed into the plastered surface by the rapid reciprocation of the knife, the shape of the blade carrier being such that the blade is automatically guided to cut below the paper without injuring the wall surface.

With the above objects in view and such others as may hereinafter appear, my invention will now be fully set forth and described, reference being had to the accompanying drawings.

In the drawings—

Figure 1 is a perspective view of my improved device,

Fig. 2 is a plan view,

Fig. 3 is a longitudinal section thereof, and

Fig. 4 is a section on line 4—4 of Fig. 3.

Referring more particularly to the drawings, 1 represents a housing which is built upon a base plate 2, the latter having its lower surface absolutely smooth and unobstructed so that it may ride upon a wall surface without marring or scratching the latter. The sides of the housing 1 are triangular in shape, so that the cover plate 3 inclines downwardly toward the front of the housing and its front edge forms with the

front edge of the base plate 2, a narrow mouth or guide way across the entire housing for a reciprocating scraping blade 4. Attached to the rear of the housing 1 is a handle 5 which is hollow to provide a suitable inlet for the electric wire cords 6 which connect to the motor 7, and are suitably connected to a power source, as an electric light socket, or a storage battery, so as to provide current for operating the motor. The forward edge of the base plate 2 is suitably shaped, as is also the front edge of the blade 4, so that as the blade is projected outwardly, it forms practically a continuation of the base plate and bears with just sufficient pressure against the wall surface to enter below any slight elevation above the wall surface, such as would be formed with a layer of wall paper.

The blade 4 operates in guide-ways 8 formed upon the side walls, and is adapted to be reciprocated by means of a pair of pitmen 9 which are pivotally secured to the rear corners of the blade 4, and have their opposite ends connected to a pair of cranks 10 which are formed as continuations of the motor shaft 11. The cranks 10, obviously, both extend in the same direction from the shaft, so that the ends of the blade 4 will equally project as the blade is reciprocated.

In the operation of the above described device, the motor having been started, the housing is placed against the wall to be cleaned or scraped with the base plate 2 flat thereagainst, so that the cutting edge of the blade 4 may be projected outwardly, practically along the plane of the wall surface. The rapid reciprocation of the blade occasioned by the motor through the intervening mechanism, rapidly cuts below the paper surface, and the paper which is removed, is guided onto the upper surface of the cover plate and falls to the floor. It will be noted that there is practically no chance for the blade to become clogged since its entire operating and guiding mechanism is inclosed, and the cover plate by its peculiar inclined position provides a natural deflection for the scraped off material.

What I claim as my invention is:—

1. A paper removing machine comprising in combination, a base plate, a cutting blade mounted upon the base plate and guided to be projected forwardly and rearwardly over the forward edge thereof, a motor mounted upon the base plate, means in-

terposed between the motor and the blade for reciprocating the latter on the base plate, and a cover plate providing with said base plate, a guide-way for the blade and acting
5 as a deflector for the material removed by the blade.

2. A paper removing machine, comprising in combination, a base plate adapted to be
10 slid over a wall surface, triangular side pieces carried by the base plate, a cover plate carried by the side pieces and inclining toward the front of the base plate, said cover plate forming with the latter, a guide-way across the front of the base plate, guide-

ways carried by the base plate, a blade car- 15 ried in the guide-ways and adapted to reciprocate longitudinally between the cover plate and the base plate and below the cover plate, a motor on the base plate and means interposed between the blade and the motor 20 for actuating the blade.

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

ALVIN B. RUSSELL.

Witnesses:

HANS CHRISTENSEN,
W. C. MONTANUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."