

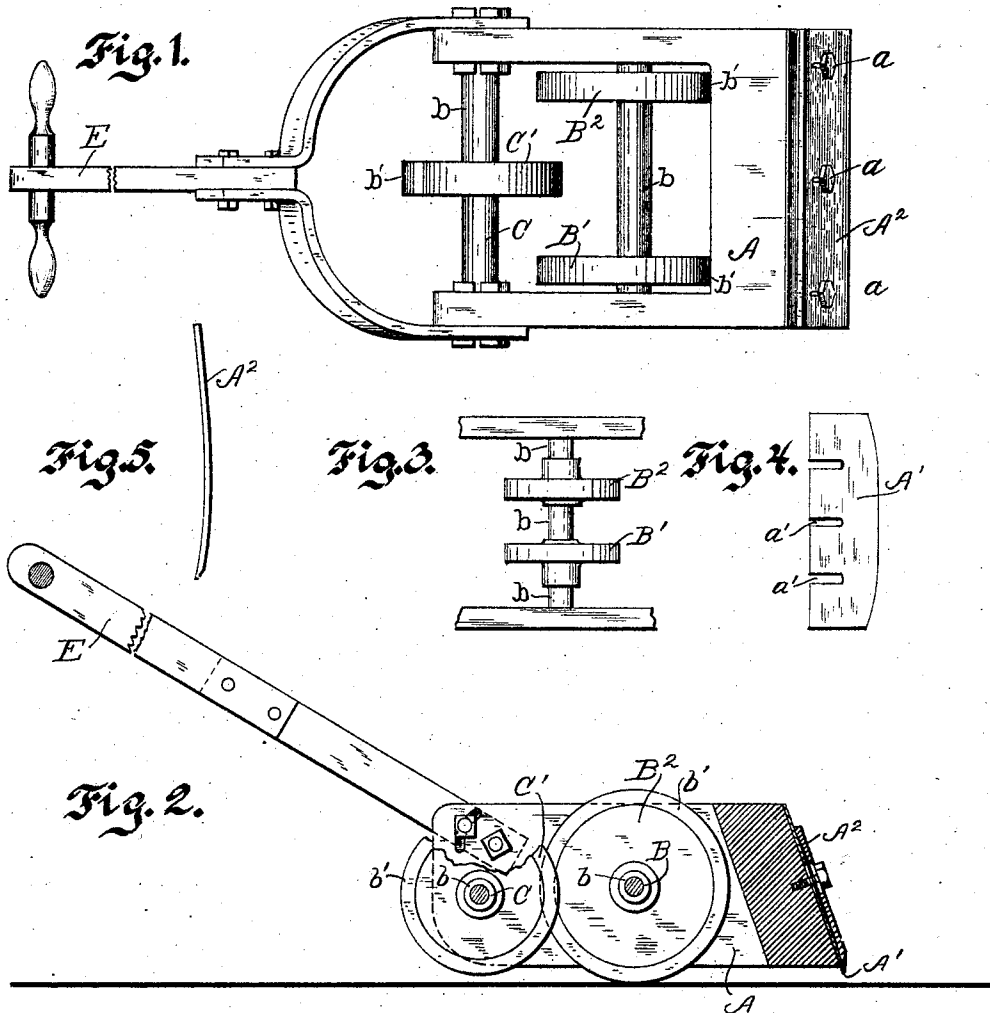
No. 853,446.

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PATENTED MAY 14, 1907.

B. O. FOX.  
FLOOR SCRAPER.

APPLICATION FILED NOV. 21, 1906.



Witnesses  
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## UNITED STATES PATENT OFFICE.

BENJAMIN O. FOX, OF MILWAUKEE, WISCONSIN.

## FLOOR-SCRAPER.

No. 853,446.

Specification of Letters Patent.

Patented May 14, 1907.

Application filed November 21, 1906. Serial No. 344,407.

*To all whom it may concern:*

Be it known that I, BENJAMIN O. FOX, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee, State of Wisconsin, have invented a new and useful Improvement in Floor-Scrapers, of which the following is a specification.

My invention has for its object to provide an easily manipulated floor scraper and it consists of the combination of parts herein-after set forth, and subsequently claimed.

In the drawings, Figure 1 is a top view of my device, Fig. 2 is a longitudinal sectional view with parts broken away, Fig. 3 is a reduced modified form with parts broken away showing the two forward rollers in close proximity to each other, Fig. 4 is a top view of the knife showing rounding corners and Fig. 5 is an end view of a spring clamp plate.

Referring by reference letters to the figures: A is a frame preferably cast in one piece of iron and having bifurcated members and its front end arranged on an angle. Secured to the front end of frame A by means of bolt screws *a*, is a round cornered knife A' and a clamp plate A<sup>2</sup>, the cutting edge of said knife extends beneath the lower edge of frame A and is provided with elongated cut out parts *a'* allowing for the perpendicular adjustment of knife A'. Clamp plate A<sup>2</sup> is made of spring metal and is concave in form so that a pressure is constantly exerted on knife A' near its cutting edge.

Permanently secured between the bifurcated members of frame A is an axle B which forms a bearing for two supporting rollers B' and B<sup>2</sup>. Said axles being provided with collars *b* for the purpose of keeping said rollers in place. Rollers B' and B<sup>2</sup> are also provided with rubber tires *b'* to prevent slipping and to make them noiseless when in operation, and said rollers are preferably arranged in close proximity to each other as shown in Fig. 3 of the drawings and for the reason hereinafter set forth.

In the rear of axle B and connecting the bifurcated parts of frame A is another axle C which forms a bearing for another roller C'. Said axle being provided with collars *b* and said roller is provided with a rubber tire *b'* as in the case of the former axle and rollers. Axle B is arranged to be near the center of weight of my machine and when it is at normal, practically all the weight of my device rests on rollers B' and B<sup>2</sup>. However,

a small weight rests on roller C' leaving the cutting edge of knife A' clear of the surface to be operated upon.

A very serious objection to floor scrapers has been that the weight of the machine, a certain amount of which is necessary to hold the knife rigid on the floor, is most all in the supporting roller or rollers, thus making the machine clumsy and taking extra power to operate it. This objection I have overcome in my device having made my roller light and the frame heavy. It will also be observed that I have provided three rollers, larger in diameter than would ordinarily be used in machines of this character, one of which is arranged considerably in the rear of the other two. By this arrangement the machine may be readily moved from side to side with ease and without lifting the machine bodily from the floor as has heretofore been necessary. This side motion is accomplished by grasping the handle E which is pivotally secured to the back end of frame A, and tipping the machine so that the weight rests first on the two front rollers and then on the back roller; and at the same time giving the handle a side motion.

The object of having the corners of the knife rounded, and the two forward rollers in close proximity to each other as shown in Fig. 3 is to enable the machine to be tipped upon one side or the other so that the knife is brought into service. This feature is essential in scraping the floor close to a wall or in the corners of a room.

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

1. In a floor scraper, a frame having bifurcated parts, two axles permanently connecting said bifurcated parts, two rollers for one of said axles, another roller for the other said axle, the latter roller arranged centrally of and a predetermined distance in the rear of said former rollers, the combined weight of said rollers being less than that of said frame, a knife adjustably secured to the front end of said frame and a handle pivotally secured to the back end of said frame substantially as set forth.

2. In a floor scraper, a bifurcated frame, two axles supported by and connecting the bifurcated parts of said frame, two rollers for one of said axles arranged in close proximity to each other, another roller for said

other axle arranged centrally of and in the rear of said two rollers, a round cornered knife adapted to be adjustably secured to the front end of said frame, a spring clamp,  
5 plate adapted to exert a constant pressure on said knife near its cutting edge and a handle substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BENJAMIN O. FOX.

Witnesses:

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J. E. DEAKIN.