J. WETSUE.

FLOOR SCRAPER.

APPLICATION FILED MAR. 8, 1909.

1,038,807.

Patented Sept. 17, 1912.

2 SHEETS—SHEET 1.

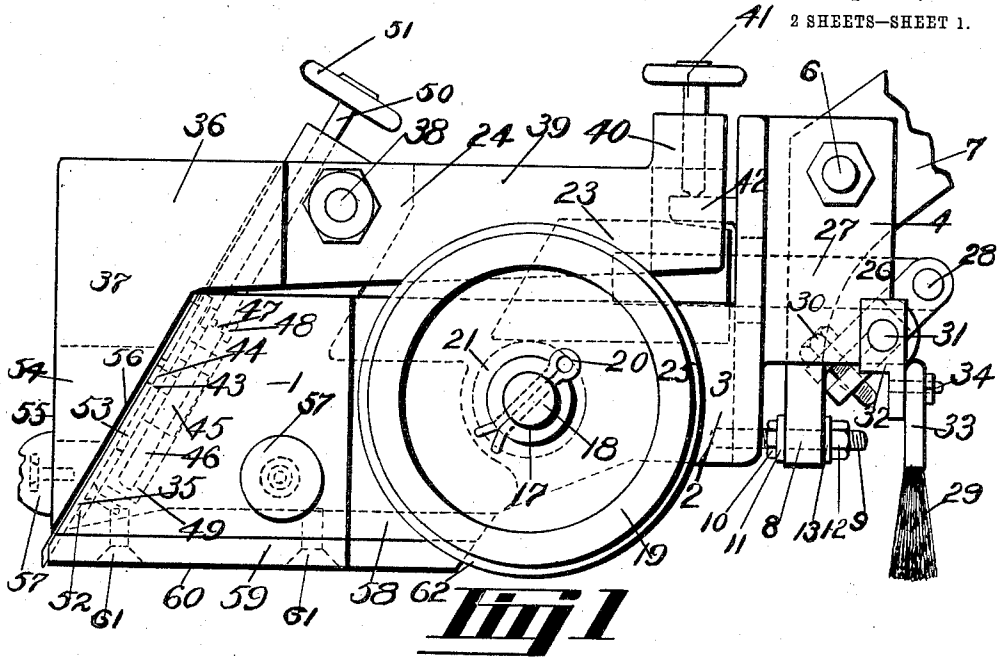

Fig 1

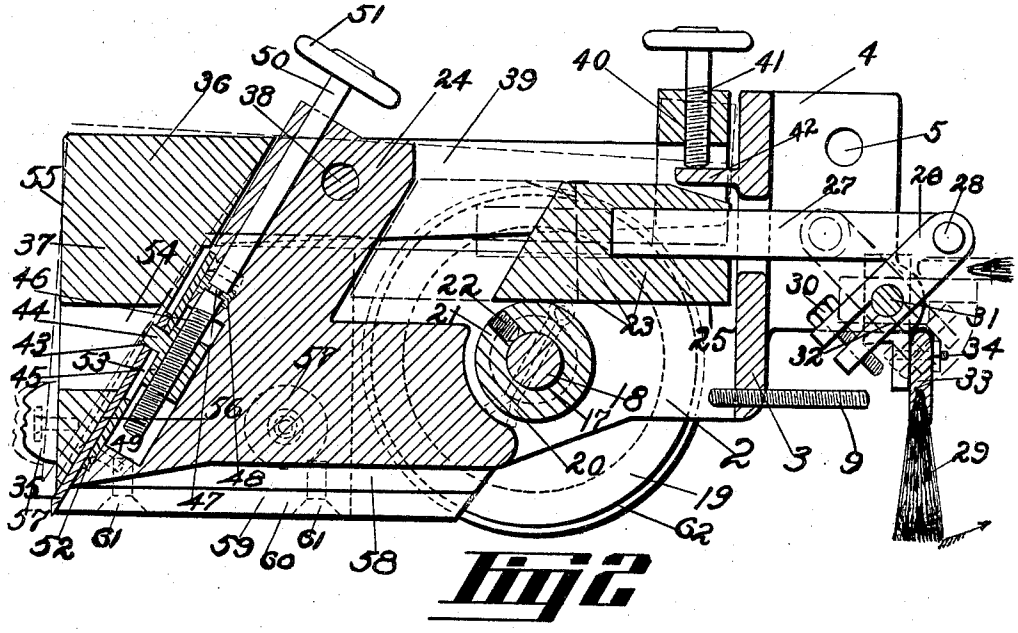

Fig 2

WITNESSES.

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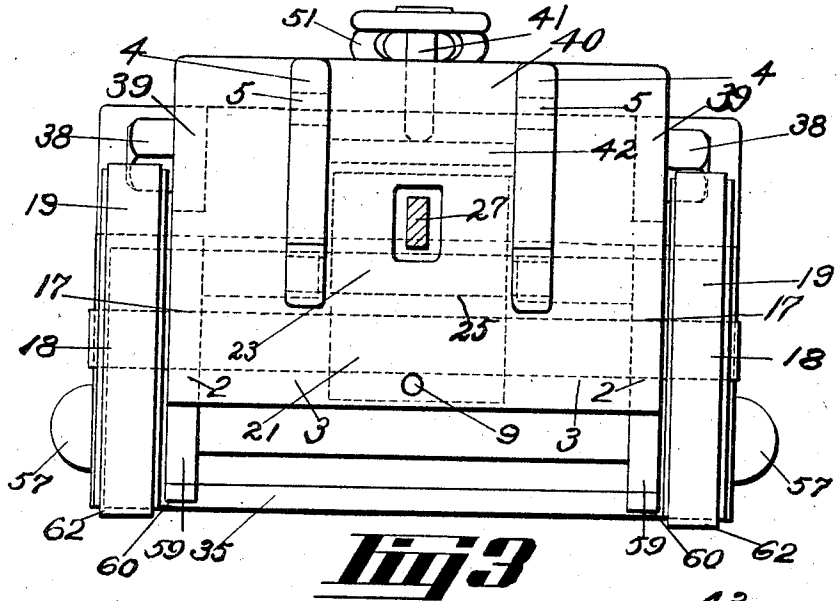

Fig 3

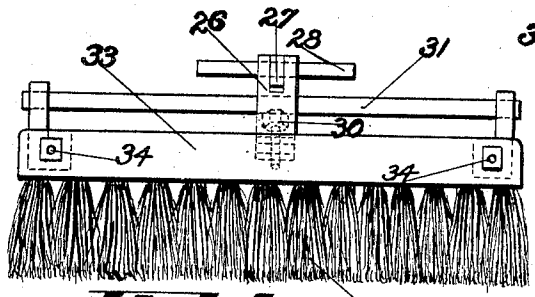

Fig 4

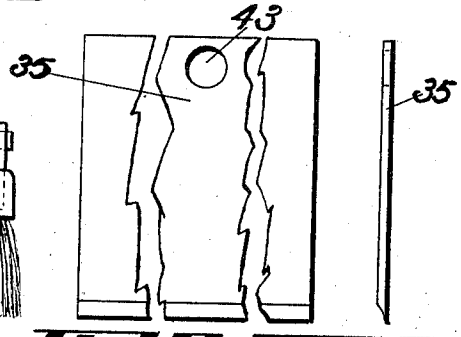

Fig 5 Fig 6

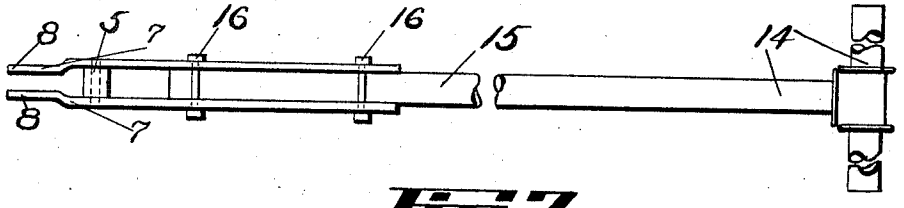

Fig 7

Witnesses-

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UNITED STATES PATENT OFFICE.

JOHN WETSUE, OF SEATTLE, WASHINGTON.

FLOOR-SCRAPER.

1,038,807. Specification of Letters Patent. Patented Sept. 17, 1912.

Application filed March 8, 1909. Serial No. 482,183.

To all whom it may concern:

Be it known that I, JOHN WETSUE, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented a new and useful Floor-Scraper, of which the following is a clear and concise specification.

My invention relates to a floor scraper in which a wheeled framework of considerable weight is provided with a scraper blade, the wheels holding the heavy framework so that the lower edges of said framework travel just above the floor whereby the irregularities in the floor being scraped will hold the scraper from scraping in the hollow places, the high spots only being removed. Another novel feature is in the brush actuating mechanism hereinafter more fully set forth which construction is adapted to sweep the floor in advance of the wheels, thus the shavings and chips will not cause the knife to jump and chatter.

I am aware that there are scraping devices where a framework carrying a scraper is provided with wheels and drawn along the floor but the common form of scraper requires a skilled workman to successfully operate it and prevent chattering and digging. The weight is usually placed in the wheels or at points where the scraper blade is not directly affected. Then too the chips which gather on the floor raise the wheels causing irregularities as the scraper advances, the features of adjusting and removing the blades of the common devices is somewhat difficult and also the adjustment of the handle for different sized rooms or to suit the person operating the scraper is not satisfactory.

The objects of my invention are to provide a floor scraping machine having an adjustable blade rigidly held in a framework of great bulk immediately around said scraper whereby the chattering is prevented; to provide a scraper blade which is adjustably held in position relative to the framework and readily removed for the purpose of sharpening; to provide a floor scraping machine having guides preventing the scraper blade from scraping the hollow portions of the floor until the raised portions have been removed thereby; to provide a floor scraping machine having an automatic floor brushing device forming a part thereof in which the brush is raised when traveling behind the wheels of said machine and lowered when traveling in advance of the wheels of the machine to sweep the shavings and chips out of the path of travel of said wheels; to provide a handle for a floor scraping machine which may be substantially shortened facilitating the use of the machine in small rooms and to provide a blade adjustment and sighting means. I accomplish these as well as minor objects by the construction now preferred by me and illustrated in the accompanying drawings in which—

Figure 1 is a side elevation of my device having a fragmentary portion of the handle only; Fig. 2 is a longitudinal section of my device taken substantially on the center line; Fig. 3 is a rear view of my device in which the brush and handle are removed; Fig. 4 is a rear elevation of the brush; Figs. 5 and 6 are detail views of the scraper knife of my device and Fig. 7 is a detail view of the handle and parts connected thereto.

Similar reference numerals refer to similar parts throughout the several views of my device as illustrated in the accompanying drawings.

I have provided a framework 1 having side walls 2 and an end wall 3 which is rigidly secured or formed integral with said side walls and provided with lugs 4 having apertures 5 adapted to receive the bolt 6 by which the handle members 7 are pivotally secured to said framework 1, said handle members 7 are provided with lower extensions 8 which are disposed on either side of a stud 9 which is secured in said end wall 3 and provided with a nut 10 and washer 11 adapted to engage one edge of said lower extensions 8, said stud is also provided with a nut 12 and a washer 13 whereby an adjustment of said handle members 7 is accomplished. Said member 7 being in the form of a bell crank the handle 14 is raised and lowered as desired, said handle 14 is lengthened or shortened by longitudinally sliding the shank 15 thereof which is normally clamped between said members 7 by the bolts 16. It will be seen by this construction that the handle of my device may be either raised or lowered or lengthened or shortened to suit the room being scraped. In practice the floor is scraped from the walls of the room toward the center of the room. The side walls 2 are provided with apertures 17 which jour-

nal the shaft 18 which is secured to the wheels 19 by the cotter pins 20. The shaft 18 is provided with a friction roll 21 which is secured thereto by the set screw 22, a weight 23 rests upon said friction roll 21 and is operated thereby to travel forward and backward as the machine advances along the floor; the travel of said weight, however, being limited by the end wall 3 at one end and by the heavy body portion 24 of said framework 1 at the opposite termination of the travel of said weight. It being obvious that during the remaining portion of the travel of the entire machine along the floor that said friction roll 21 will slip on the undersurface 25 of said weight 23 which operates the clamp lever 26 by a rearwardly extending member 27 which is rigidly secured to said weight and pivotally secured by the pin 28 to said lever 26. Said lever 26 is clamped in fixed relation to a brush 29 by the adjusting bolt 30 which clamps said clamp lever 26 to the shaft 31 to which is secured the brush supporting pieces 32, said supporting pieces 32 are detachably secured to the back 33 of said brush 29 by the bolts 34. It will be seen that as the weight 23 advances in one direction that the brush will be raised as is shown in dotted lines in Fig 2. The scraper blade 35 when the machine is traveling in this direction is raised from the floor until the end of the travel of the machine in this direction is reversed after which said scraper blade 35 is lowered against the floor by raising on said handle 14 and drawn in opposite direction while in the process of scraping which opposite direction of travel causes an opposite direction of travel of the weight 23 lowering the brush as shown in full lines in Figs. 1 and 2 thus sweeping the chips from the floor which would otherwise raise the wheels and cause the surface being scraped to be uneven.

By referring to Fig. 2 of the drawing it will be noted that the large body of material 24 is substantially adjacent the scraper 25 which deadens the tendency of said scraper to vibrate in view of the weight and mass. Said scraper 35 is secured to said body 24 by the movable member 36 comprising a heavy jaw 37 pivotally secured to said body 24 by the bolt 38 which passes through said body 24 and through the lever extensions 39 disposed on either side thereof. Said lever extensions extend toward the end wall 3 and are provided at the ends nearest said wall 3 with a cross bar 40 which is adapted to receive the adjusting screw 4 which acts against a boss 42 rigidly secured or formed integral with the end wall 3. It will be seen by referring to Fig. 2 of the accompanying drawings that when the cross bar 40 is in its raised position as is shown in full lines that the heavy jaw 37 holds said scraper blade 35 firmly against the blade clamp 24 and that when said screw 41 is slackened allowing said bar 40 to be lowered that said jaw 37 is raised which permits the removal of said scraper blade 35. Said scraper blade 35 is provided with hole 43 engaging the pin 44 projecting from the adjusting nut 45 which is preferably threaded to receive the blade adjusting screw 46 which is prevented from traveling longitudinally by the groove 47 and thrust collar 48 which is embedded in the body 24 which body is provided with a recess 49 permitting the travel of the adjusting nut 45. The threaded adjusting screw 46 is provided with an upwardly extending shank 50 and adjusting wheel 51 accessible from the exterior of my device. I have provided a retaining plate 52 detachably secured to the heavy portion 24 substantially concealing said recess 49, said retaining plate being provided with a slot 53 permitting travel of the pin 44 therein said heavy jaw 37 is provided with an opening 54 extending from the front face 55 to the inner face 56. To prevent the wood work from being marked by the careless use of my device I have provided rubber bumpers 57 projecting beyond the end and side surfaces of the framework. It will be noticed by referring to the drawings that said blade clamp 24 is provided with a recess 58 on the undersurface thereof allowing the chips and shavings to freely pass from the scraper blade and forming the runners 59 at each side of said recess, said runners 59 prevent the scraper from removing material in the hollow portions of the surface being scraped until the high portions have been removed. To prevent the runners 59 from marking the floor I have provided a facing 60 detachably secured thereto by the screws 61. The wheels 19 are also provided with a relatively soft facing or tire 62.

I do not wish to be limited to the specific construction but wish to depart from such details as are within the scope of the appended claims.

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

1. In a floor scraping device, a wheeled frame work, an end wall provided at the rear of said frame work and a forwardly projecting boss provided on said end wall, a movable member and a scraper blade held between said movable member and said wheeled frame work, a pivotal connection for said movable member, and lever extensions to said movable member, a cross bar connecting said lever extensions and an adjusting screw carried by said cross bar and engaging said lug whereby said movable member is adjusted.

2. In a floor scraper, a wheeled frame

work, a jaw pivotally connected to said wheeled frame work having an opening therein, an apertured scraper blade and an adjusting screw and an adjusting nut operated by said screw, a pin engaging the aperture in said scraper blade and secured to said adjusting nut and positioned to be visible through said opening in said jaw whereby the position of the blade relative to said pin may be easily determined.

3. In a floor scraping machine, a wheeled frame work and a body portion forming a part thereof, a recess provided on the under surface of said body portion, a runner provided on each side of said recess and an anti-friction facing detachably secured to said runner.

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

JOHN WETSUE.

Witnesses:
S. ALLBIN,
L. G. BROOKS.

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