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J. B. ACKERMANN.

SCRAPER.

APPLICATION FILED APR. 11, 1907.

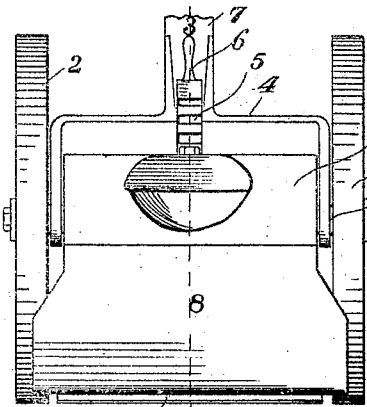


Fig. 1.

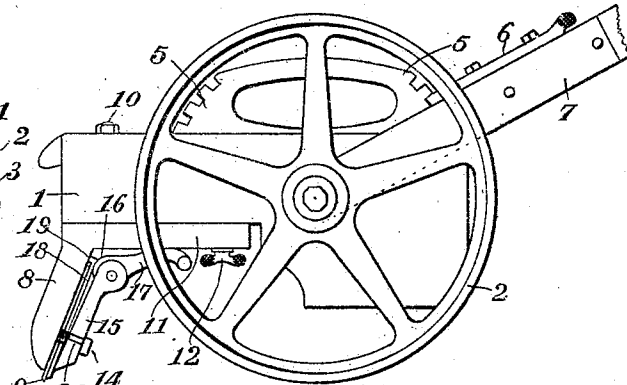


Fig. 2.

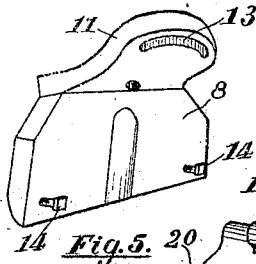


Fig. 5.

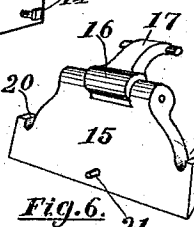


Fig. 6.

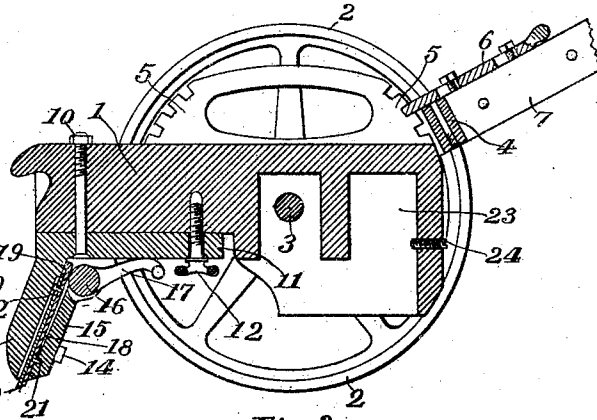


Fig. 3.

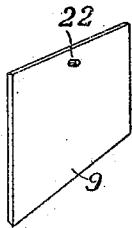


Fig. 7.

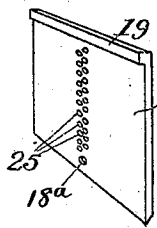


Fig. 8.

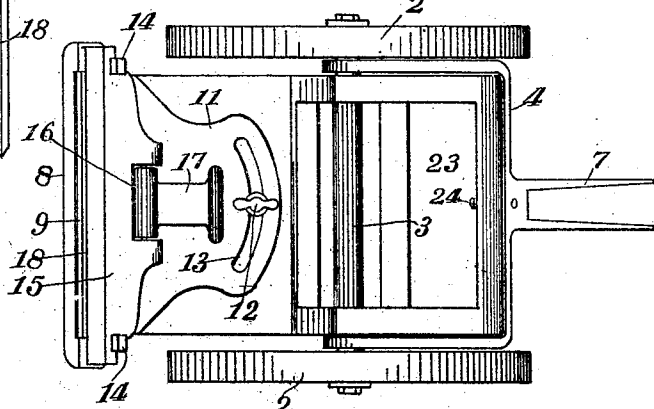


Fig. 4.

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SCRAPER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN B. ACKERMANN, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Floor-Scrapers; 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.

My invention relates to improvements in floor scrapers, and its object is to provide the same with improved means for attaching the handle; improved means for adjusting and holding the cutter, and to provide the same with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:

Figure 1. is a front elevation of a device embodying my invention; Fig. 2. a side elevation of the same; Fig. 3. a vertical section of the same on the line 3—3 of Fig. 1; Fig. 4. an inverted plan view of the same; Fig. 5. a perspective detail of the adjustable cutter holder; Fig. 6. a perspective detail of the cutter clamp; Fig. 7. a perspective detail of the cutter blade; and, Fig. 8. a perspective detail of the blade holding plate.

Like numbers refer to like parts in all of the figures.

1 represents the main body of the device preferably made of a heavy casting recessed on the under side at 23 to receive an additional weight (not shown) which is secured in the recess by a set screw 24. This body is mounted on a pair of wheels 2 journaled on an axle 3. A bail 4 is pivoted on the axle and adapted to turn to opposite positions whereby the handle 7 attached thereto may be adjusted projecting from the side opposite to the cutter, or projecting above the cutter, in which latter position it may be used to reverse or turn the body to inverted position to permit convenient access to the cutter for sharpening the same in place, or removal of the same, as occasion may require. This yoke is adjusted in the respective reversed positions, and at various angles by means of a detent 6 slidable on the handle and engaging notched sectors 5 at the respective sides of the body.

To provide for adjusting the cutter with one end of the same in advance of the other,

whereby a diagonal, or "drawing" cutting action is secured, I mount the cutter on a holder 8 pivotally attached to the under side of the body preferably by a pivot bolt 10, and provide the holder with an extension 11 having a segmental slot 13 therein, through which is inserted a binding screw 12. By adjusting this holder about the axis of the bolt 10, the cutter will be inclined to the axis of the device and with one end moving in advance of the other.

To detachably and adjustably secure the cutter 9 to the rear side of the holder 8, I provide a plate 18, having a rib 19 at the upper edge projecting substantially the thickness of the cutter and engaging the rear of the holder. This plate engages the rear surface of the cutter and is provided with a series of holes 25 at frequent intervals, and a pin 22 is provided in the upper part of the cutter, which pin is inserted in one of these holes to retain the cutter in place, and as the cutter is worn away, the pin is moved down in the various holes 25.

To hold the cutter 9 and plate 18, a clamp 15 is provided having recesses 20 at its respective ends to receive cap screws 14 inserted in the rear of the holder 8, and journaled in the upper part of this clamp is a cam 16 operated by a lever 17, and adapted to engage the plate 18 near the upper edge thereof. By adjusting the cap screws and cam, the plate and cutter will be securely held in place and the cutter prevented from vibrating or "chattering". To secure the plate 18 from slipping downward, a pin 21 in the clamp 15 engages a hole 18^a in said plate.

By the described construction, the cutter can be adjusted at pleasure, and also quickly and readily detached or again attached. The handle may also be adjusted above the cutter, or oppositely projecting as in the drawings, and when occasion requires, the device may be readily turned with the cutter projecting upward to conveniently sharpen or remove the same.

What I claim is:

1. In a floor scraper, a body mounted on two wheels, and adapted to be turned about the axis of said wheels to an inverted position, a bail pivoted to the body to turn to reversed positions means for holding the bail in the respective positions, and a cutter attached to the under side of the body and projecting downward therefrom when the body is in one position and projecting upward

therefrom when said body is in inverted position.

2. In a floor scraper, a body mounted on wheels, a cutter holder projecting downward from the body and pivoted to the same to turn on a vertical axis, an extension on the holder and having a segmental slot concentric with the axis of the holder, a binding screw in the slot, and a cutter attached to the holder.

3. In a floor scraper, a body mounted on wheels, a cutter holder attached to the under side of the body by a vertical pivot bolt, an extension on the holder having a segmental slot concentric with the bolt, a binding screw in the slot, and a reversible bail attached to the body whereby the body may be inverted to gain access to the cutter.

4. In a floor scraper, a cutter holder, a cutter engaged at one side by the holder, a plate having a rib at one edge and engaging the holder above the cutter, a clamp engaging the plate and having recesses at its respective ends, cap screws adjustable in the holder and engaging the recesses, and a cam pivoted in the clamp and engaging the plate near its upper edge.

5. In a floor scraper, a cutter holder, a cutter engaged at one side by the holder, a plate engaging the other side of the cutter, and having a series of holes, a pin in the cutter to successively engage said holes, and a clamp to engage the plate and press the same against the cutter.

6. In a floor scraper, a cutter, a holder engaging one side of the cutter, a plate engaging the other side of the cutter and having a rib engaging the holder above the cutter, and also having a series of holes, a pin in the cutter to successively engage the holes in the plate, a clamp engaging the plate, means for

forcing the clamp against the plate, and a pin in the clamp engaging a hole in the plate

7. In a floor scraper, a cutter, a holder engaging one side of the cutter, a plate engaging the other side of the cutter and having a series of holes, a clamp engaging the plate and having a recess at each end, cap screws in the holder and engaging the recesses, a cam journaled in the clamp and engaging the plate, a pin in the clamp engaging a hole in the plate, and a pin in the cutter successively engaging the holes in the plate.

8. In a floor scraper, a body recessed in the under side and near one end to receive a weight, means for securing a weight in the recess, a downwardly extended cutter holder on the other end of the body, an axle supporting the body, wheels journaled on the axle, a reversible bail pivoted to the body, means for securing the bail in the respective reversed positions, means for adjusting the cutter holder located on the under side of the body, and a clamp on the rear of the cutter holder and beneath the body.

9. In a floor scraper, a body having means for attaching a weight to its under side, an axle reversibly supporting the body, a cutter holder attached to the under side of the body and projecting downward therefrom, means for adjusting the holder and means for clamping a knife to the holder, said means also being beneath the body, and a reversible bail attached to the body, whereby the same may be inverted to gain access to devices located at the under side of the same.

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

JOHN B. ACKERMANN.

Witnesses:

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GEORGIANA CHACE.