

C. H. BRADEN.

GUTTER SCRAPER.

APPLICATION FILED JAN. 4, 1909.

929,278.

Patented July 27, 1909.

2 SHEETS—SHEET 1.

FIG. 1

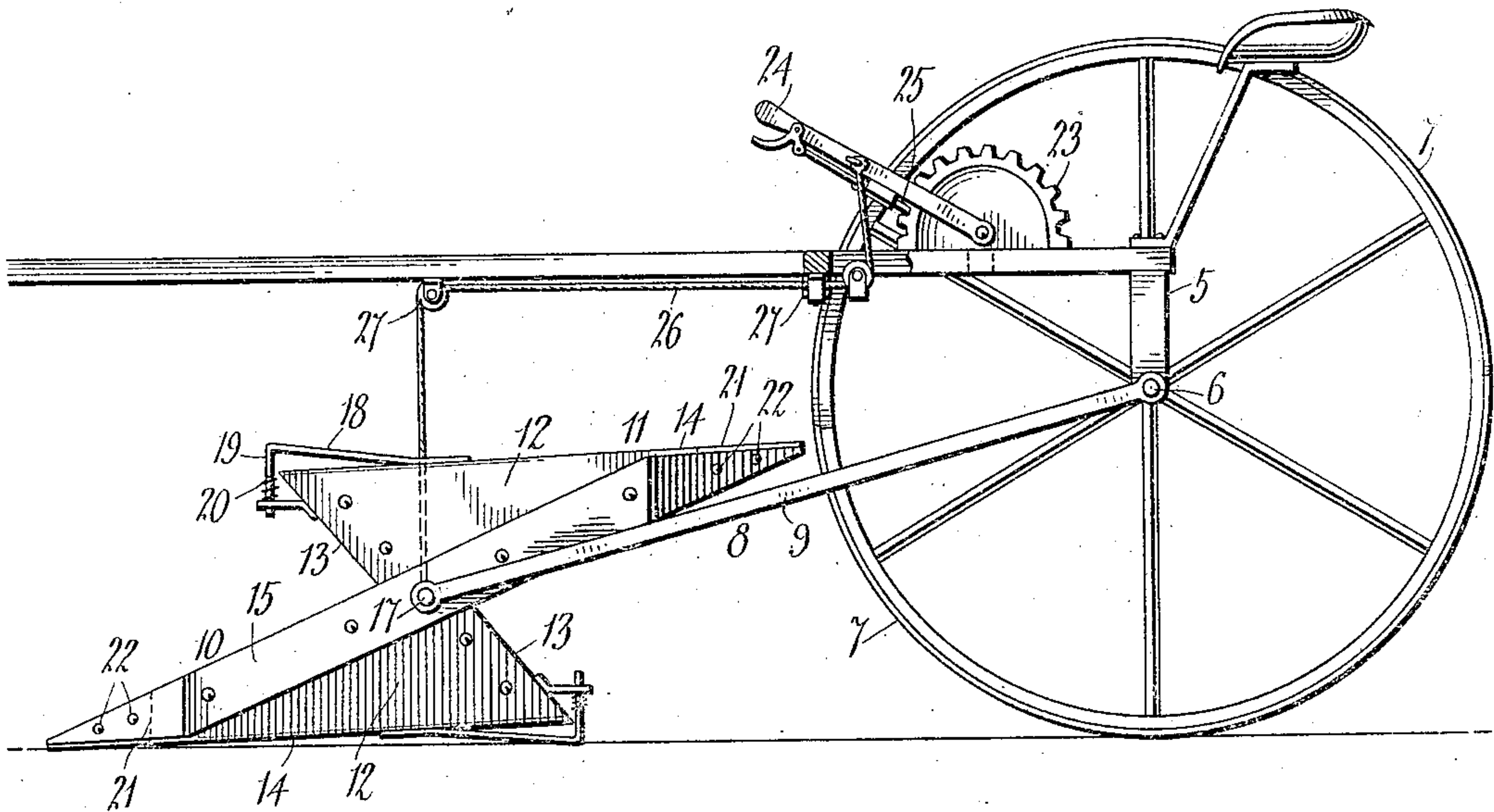
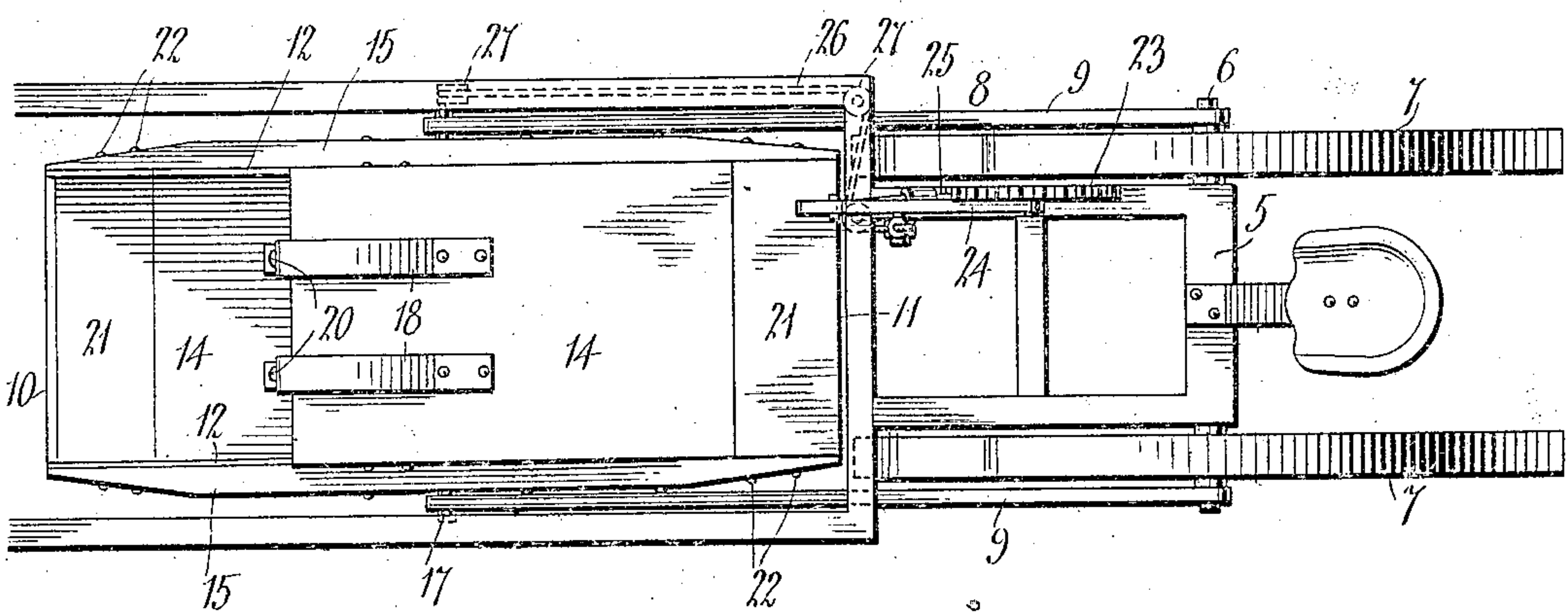


FIG. 2



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Witnesses

J. H. Perkins
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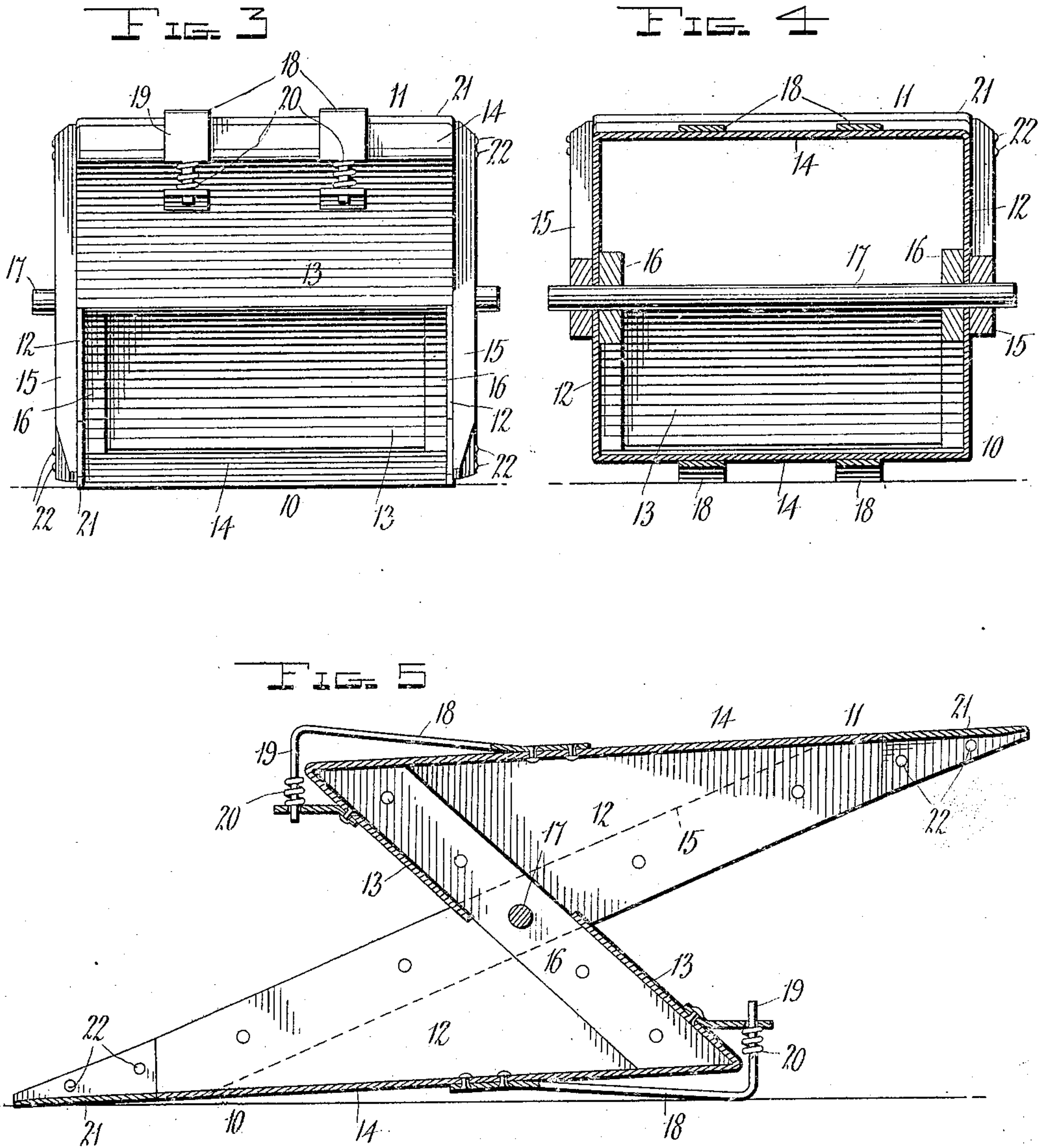
By *[Signature]*

Attorneys

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UNITED STATES PATENT OFFICE.

CHARLES H. BRADEN, OF WINFIELD, KANSAS.

GUTTER-SCRAPER.

No. 929,278.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed January 4, 1909. Serial No. 470,726.

To all whom it may concern:

Be it known that I, CHARLES H. BRADEN, a citizen of the United States, residing at Winfield, in the county of Cowley, State of Kansas, have invented certain new and useful Improvements in Gutter-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.

The invention relates to a gutter scraper and more particularly to the class of revolving gutter scrapers which are mounted upon wheels.

The primary object of the invention is the provision of a gutter scraper having revolving scoops adapted to be held in a position to collect dirt from street gutters and when the said scoops have been filled the same by gravity when raised will tilt and discharge the dirt into piles at predetermined distances in the gutter to be subsequently removed by a wagon or the like.

Another object of the invention is the provision of a gutter scraper having a wheeled frame in which is mounted a series of revolving united scoops which latter are adapted to scrape the street gutters for collecting the dirt therefrom and upon raising the frame the scoop filled with dirt will by gravity assume a tilting position whereby the dirt contained in the same will discharge therefrom in a pile on the ground and another scoop is capable in a single operation of being brought into an operative position to scrape and collect dirt.

A further object of the invention is the provision of a gutter scraper which is simple in construction, durable, efficient in operation and inexpensive in the manufacture.

With these and other objects in view the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described and as illustrated in the accompanying drawings. It is to be understood however, that changes, variations and modifications may be made such as come properly within the scope of the claims hereunto appended without departing from the spirit of the invention.

In the drawings: Figure 1 is a side view of the invention. Fig. 2 is a top plan view. Fig. 3 is a front view. Fig. 4 is a sectional view through the scoops. Fig. 5 is a longitudinal sectional view.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

In the drawings the numeral 5 designates a main frame having projecting forwardly therefrom the usual shafts and mounted upon said frame is an axle 6 the latter supporting wheels 7 and to this axle 6 is connected a revolving scraper which is mounted for operation by means of a raising and lowering frame 8 the same including spaced parallel side arms 9 the inner ends of which are loosely connected to said axle and to the opposite ends is revolvably connected a scraper element formed of scoops 10 and 11 each having side walls 12, end walls 13, and a bottom 14. The said scoops are rigidly connected to each other by cross bars 15 and 16 and are offset with respect to one another so that spindles or journals 17 having their bearings in the ends of said arms 9 are off center of gravity of said scoops whereby when the frame is raised the lowermost scoop will gravitate so that its bottom 14 will assume substantially a vertical position to discharge dirt collected in the scoop into a pile on the ground and at the same time this single operation will bring the other scoop into a position so that when the frame is lowered the mouth portion of said latter scoop shall assume a normal operative position for the collection of another load of dirt upon the forward travel of the machine.

The revolving scraper can be transported or drawn by any suitable connection with draft animals and which connections are not shown.

Connected to the bottom 14 of each scoop are yieldable heel shoes 18 the latter having their ends bent upwardly and inwardly as at 19 in close proximity to the end wall 13 of the said scoop and each upwardly and inwardly bent extremity of said shoes having connection with a tension spring 20 the latter also connected to the end wall of the scoop. It is obvious these heel shoes serve to properly position the mouth portion of the scoop relative to the ground for positive collection of dirt during the travel of the machine. Detachably mounted in the mouth portions of the said scoops are cutting shares 21 the latter secured to the cross bars 15 and 16 respectively by bolt fastenings 22 whereby the said shares can be detached and replaced by other shares to adapt the scoops for different formation of gutters to be cleaned.

Upon the frame 5 is a tooth segment 23 which is engaged by a pivotal throw lever 24 having a spring controlled locking pawl 25 normally engaging the teeth of said segment to hold the scraper element in adjusted position and to said lever 24 is connected a cable 26 the latter also connected to the frame supporting the scraper element so as to permit the adjustment of the latter. Said cable 26 passes over pulleys 27 journaled on the main frame, and shafts.

In operation and presuming that one of these scoops is in contact with the ground so that its mouth portion is in position for receiving dirt scraped by the scoop when the machine is in its forward travel and that a considerable amount of dirt has accumulated in the scoop the operator raises the frame a sufficient distance above the ground so that the loaded scoop by gravitation will revolve on its axis to permit the discharge of the load in a pile on the ground and due to the weight of the load and the movement of

gravitation of the said scoop the other scoop will in the same operation be brought into position so that upon lowering of the frame the mouth portion of the last mentioned scoop will be in position and contact with the ground so as to receive another load of dirt as the machine is advanced forwardly.

What is claimed is—

1. A gutter scraper comprising a wheeled frame having spaced parallel arms and scoops revolubly mounted in the ends of said arms.

2. A gutter scraper comprising a wheeled raising and lowering frame, offset scoops, and journals connecting the latter to the frame whereby the scoops will gravitate to a discharging position.

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

CHARLES H. BRADEN.

Witnesses:

JAMES McDERMOTT,
J. C. PAGE.