

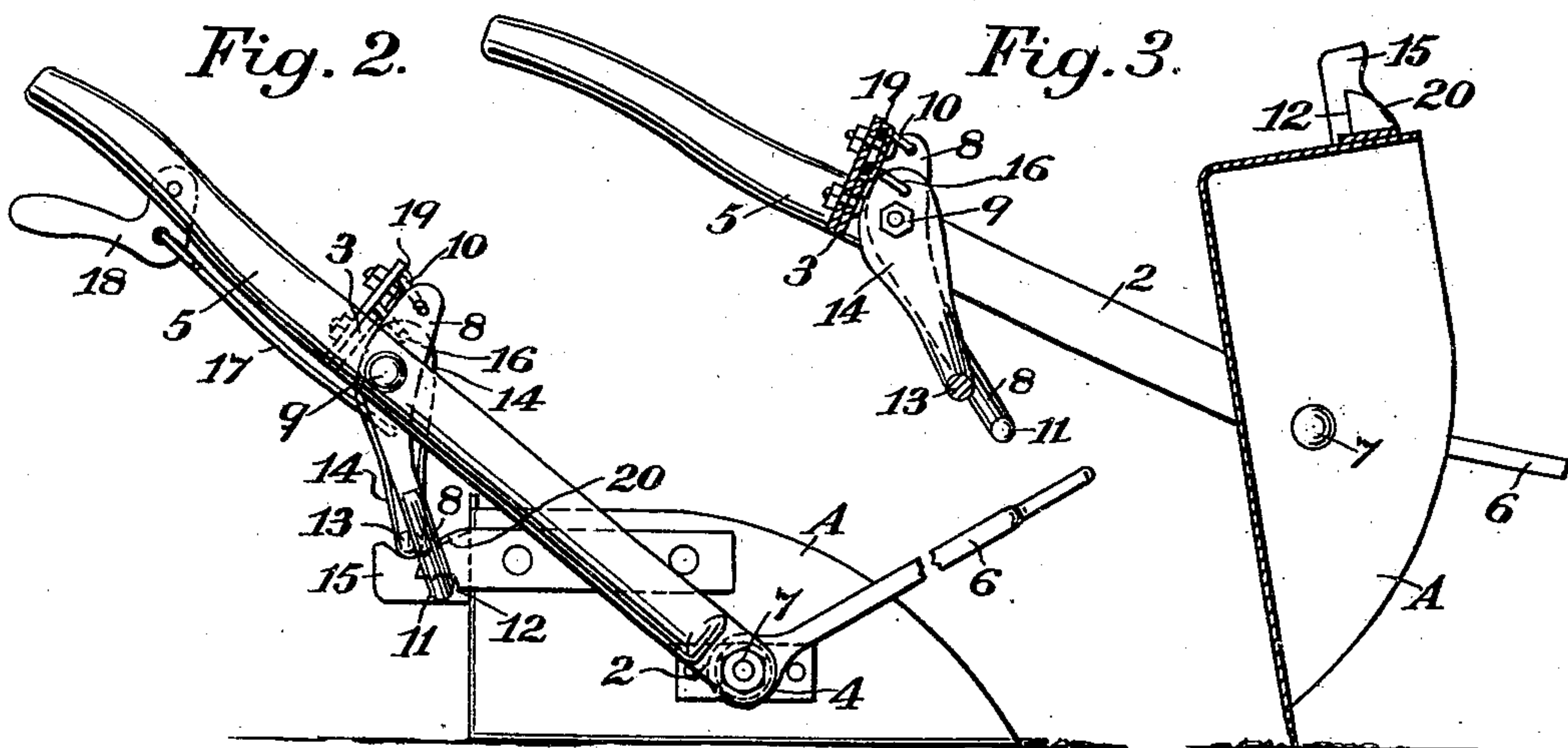
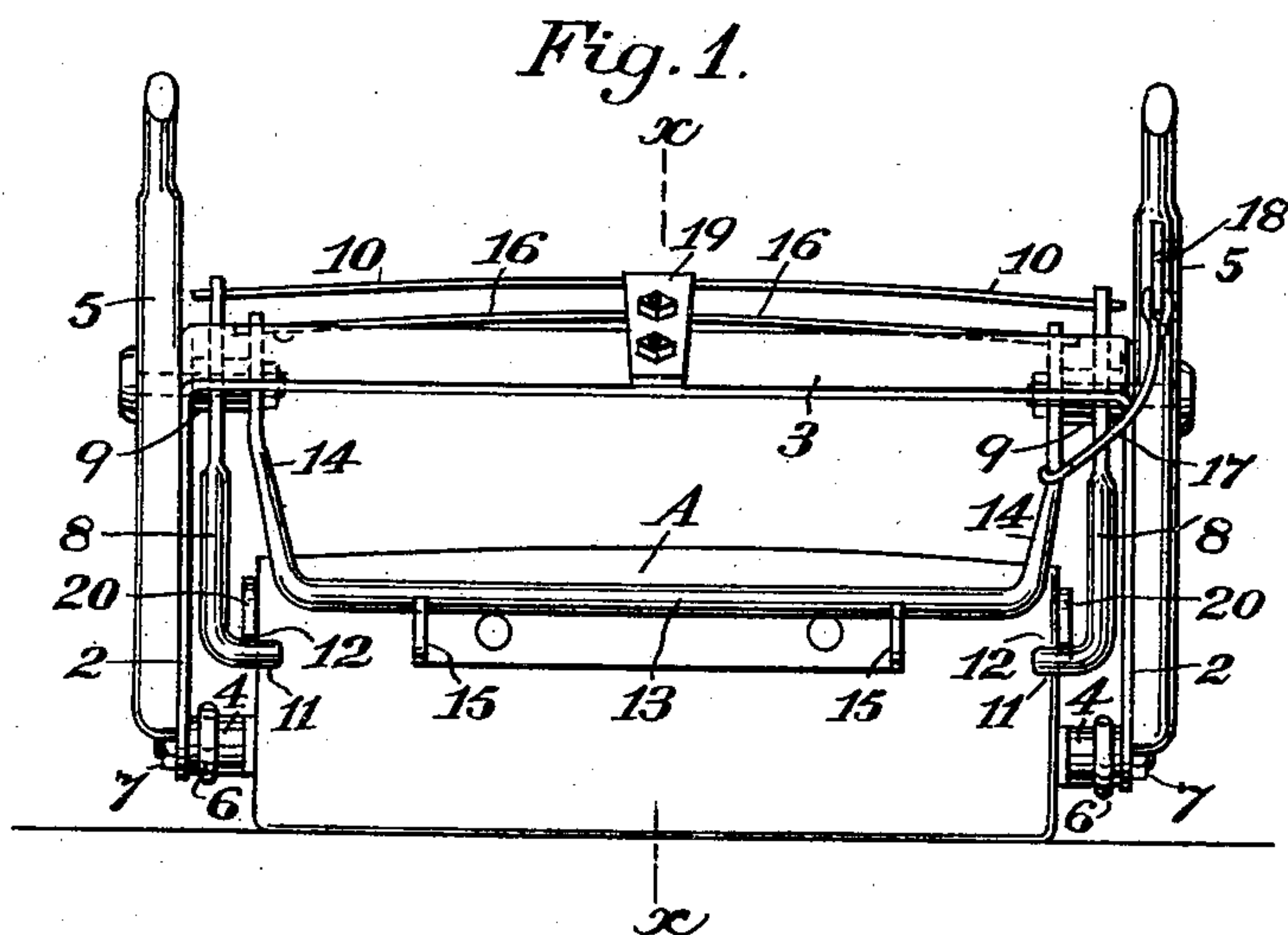
No. 712,838.

Patented Nov. 4, 1902.

R. H. McCAUGHEY.  
ROTARY SCRAPER.

(Application filed Apr. 9, 1902.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

RALPH HERRMAN MCCAUGHEY, OF CAMPBELL, CALIFORNIA.

## ROTARY SCRAPER.

SPECIFICATION forming part of Letters Patent No. 712,838, dated November 4, 1902.

Application filed April 9, 1902. Serial No. 102,008. (No model.)

*To all whom it may concern:*

Be it known that I, RALPH HERRMAN MCCAUGHEY, a citizen of the United States, residing at Campbell, county of Santa Clara, State of California, have invented an Improvement in Rotary Scrapers; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to improvements in dirt-scrapers. It is particularly intended for use in blocking up corners in orchards before irrigating. Its object is to provide a device which can be easily dumped and which will automatically right itself, allowing the operator always to retain hold of the handles.

It consists of a scoop or shovel adapted to slide along the surface of the ground, handles pivoted to lugs upon the sides of the scoop, projections on the rear of the latter, spring-actuated latch members engaging said projections, one of said latch members connected with a hand-lever upon one of the handles by which the latch may be released to allow the scoop to dump and the other of said latch members adapted to engage the scoop when the latter is again righted and hold it in proper relation to the handles.

It also comprises details of construction which will be more fully described hereinafter, having reference to the accompanying drawings, in which—

Figure 1 is a rear elevation of my invention. Fig. 2 is a side elevation. Fig. 3 is a longitudinal section on the line  $x x$ , Fig. 1, showing the scraper in a dumping position.

1 represents a scoop or shovel, and 2 are metal arms united by the cross-piece 3 and pivoted to the shovel at 4. The handles 5 are secured to the arms 2.

The pivots 4 consist of perforated lugs bolted or riveted to the sides and centrally of the scoop. The eyes of the draft-bail 6 slip on over the lugs, and the parts are held in place by means of bolts 7.

The shovel is intended to revolve in dumping without the necessity of the operator releasing the handles. In order to maintain the shovel in horizontal position until such time as the operator is ready to dump the load, I have provided an upper and lower set of latch members upon the handles which are

adapted to engage corresponding projections on the shovel. The lower set of latch members consist of downwardly-extending arms 8, pivoted to the handles at 9, having their upper ends engaging the ends of a centrally-supported spring-bar 10, while their lower ends have inwardly-extending projections 11, which are adapted to engage the under side of the cam-stops 12, secured at the corners of the shovel. This latch device prevents the rear end of the scoop from dropping. It is prevented from rising by means of the latch-bar 13, whose arms 14 are likewise pivoted to the handles at 9, engaging the upper edges of the projections 15 on the rear side of the scoop. The latch is normally pressed into the path of these projections by means of a centrally-supported spring-bar 16, like unto bar 10, engaging the upper ends of the arms 14. The latch member 13 is connected by means of a link 17 with a lever 18 on one of the handles disposed within convenient reach of the operator. The springs 10 and 16 are held in a clamp 19, secured centrally of the cross-piece 3 of the handle-frame.

In operation the loaded scraper is dumped by raising up on the handles and simultaneously pressing in on the hand-lever 18, which causes the latch 13 to disengage the projections 15, allowing the shovel to turn over as the horse moves forward. The lever 18 is then released, so that the latch 13 will engage the stops 15 when the scoop has finished its revolution. The arms 8 are pressed out of the way as the scoop swings again into horizontal position by means of the curved upper edges or cam-surfaces 20 of the stops 12. As the stops 15 strike the latch 13 the latch-arms 8 engage beneath the stops 12 and automatically lock the scoop in position.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination in a scraper of a scoop or shovel, handles pivoted to the sides thereof and between which handles said scoop is revoluble, spring-actuated latch members carried by said handles pivotally mounted between their ends and having their lower ends extending down in rear of the scoop, stops on said scoop engaging said lower ends



of said latch members and means by which said latches may be released to allow the scoop to revolve.

2. The combination in a scraper, of a scoop  
5 or shovel, handles pivoted thereto, spring-  
pressed latch members on said handles, and  
pivotally mounted between their ends said  
members having their upper ends engaged  
by springs and their lower ends extending  
10 downwardly behind the scoop, stops upon  
the back of said scoop, said latch members  
engaging said stops to hold the scoop in hori-  
zontal position, a lever in connection with  
said handles and connections between said  
15 lever and one of said latch members whereby  
said latch may be released to allow the scoop  
to revolve.

3. The combination in a scraper, of a scoop  
or shovel, handles pivoted thereto, stops on  
20 said scoop and projecting rearward thereof,  
latch members pivoted on said handles and  
pivotally mounted between their ends having  
their upper ends extending above the handles  
and their lower ends extending below the  
25 handles and engaging said stops to prevent  
the scoop turning, centrally-supported trans-  
versely-extending spring members engaging

the upper ends of said latch members where-  
by the latter are normally held in the path  
of said stops and means by which said mem- 30  
bers may be operated to allow the scoop to  
revolve.

4. The combination in a scraper, of a scoop  
or shovel, having perforated lugs secured cen-  
trally of the sides thereof, handles and draft- 35  
bails embracing said lugs, means for securing  
them thereon, a cross-piece connecting the  
handles rearward of the scoop, pivoted latch  
members on said handles, centrally-supported  
spring-bars secured to said cross-piece and 40  
engaging the ends of said latch members,  
stops upon the scoop adapted to engage said  
latch members and lock the scoop in position,  
a lever pivoted to one of said handles and a  
link connecting said lever and one of said 45  
latch members whereby the latter is operated  
to release the scoop and allow it to revolve.

In witness whereof I have hereunto set my  
hand.

RALPH HERRMAN MCCAUGHEY.

Witnesses:

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