

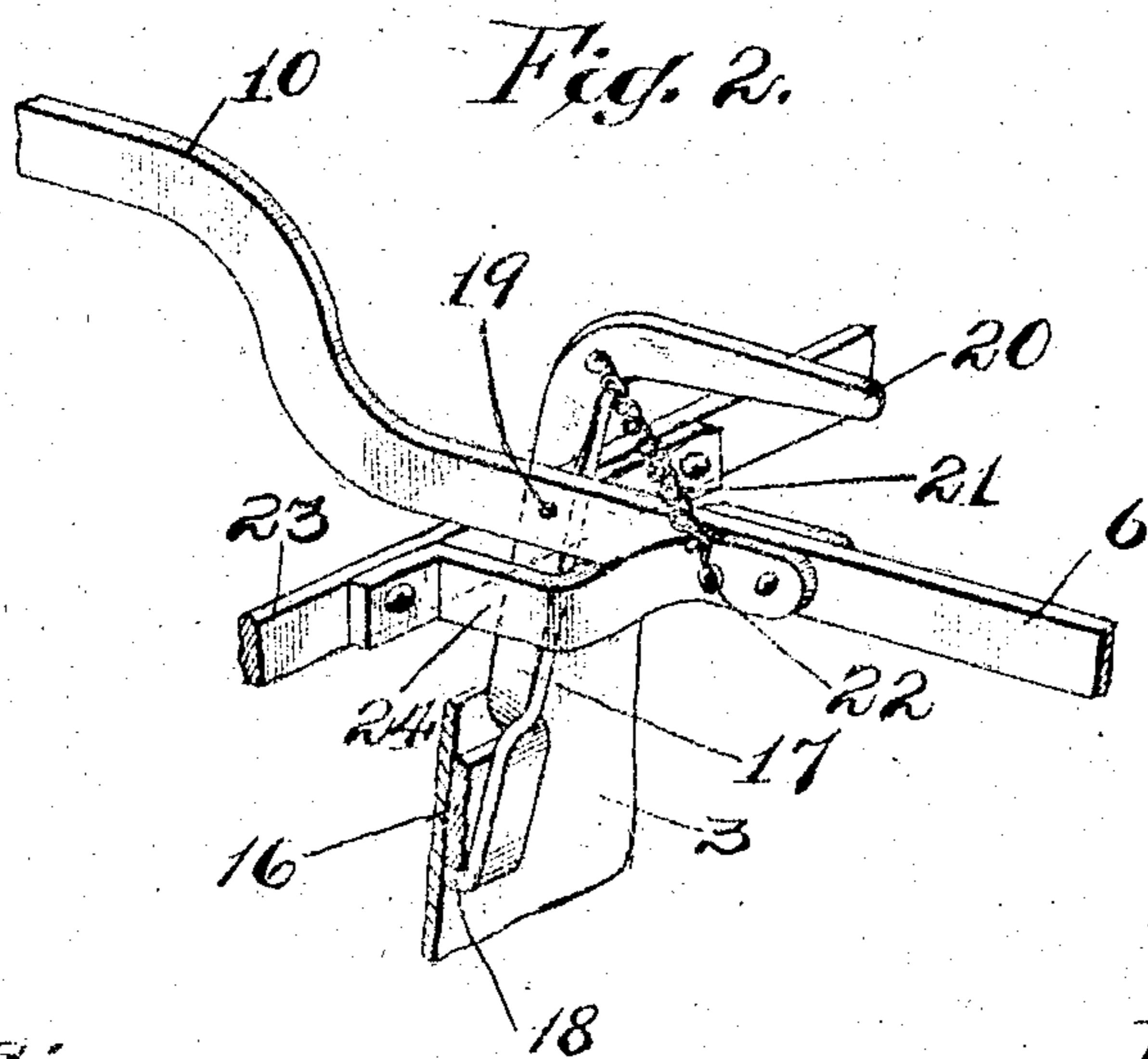
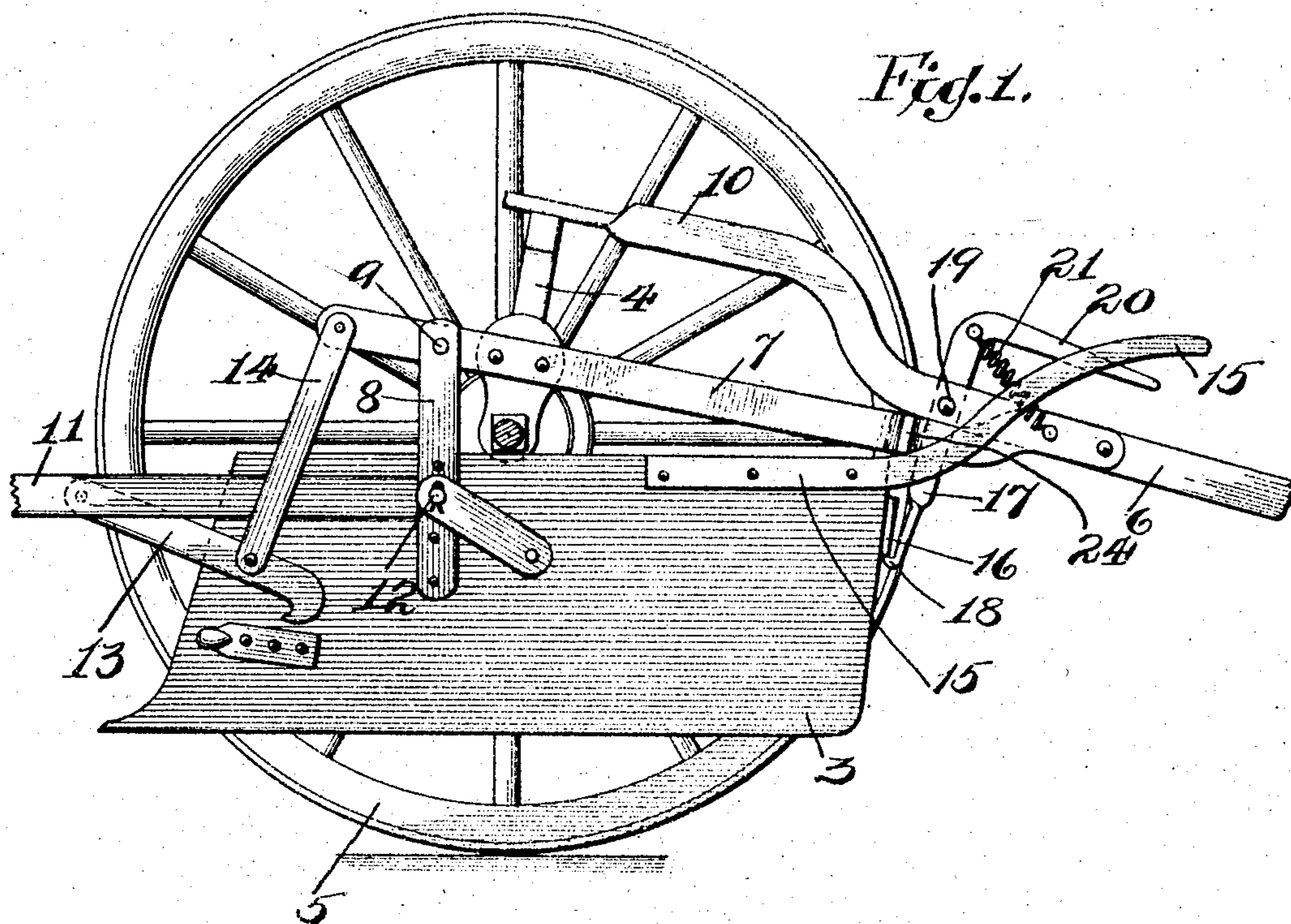
No. 773,092.

PATENTED OCT. 25, 1904.

T. R. McKNIGHT.  
WHEELED SCRAPER.

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NO MODEL.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

THOMAS R. McKNIGHT, OF AURORA, ILLINOIS, ASSIGNOR TO WESTERN WHEELED SCRAPER COMPANY, OF AURORA, ILLINOIS, A CORPORATION OF ILLINOIS.

## WHEELED SCRAPER.

SPECIFICATION forming part of Letters Patent No. 773,092, dated October 25, 1904.

Application filed March 8, 1904. Serial No. 197,182. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS R. McKNIGHT, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Wheeled Scrapers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to scrapers, and has particularly to do with the construction and arrangement of the devices for supporting the rear portion of the pan or bowl when in carrying position.

It has for its object to provide a new and improved form of catch for supporting the rear portion of the pan, also to provide an improved arrangement of spring mechanism for holding the catch in engagement with the usual cleat provided at the back of the pan, and to provide means for limiting the forward movement of the lower portion of the catch. I accomplish these objects as illustrated in the drawings and as hereinafter described.

What I regard as new is set forth in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the scraper, one wheel being removed; and Fig. 2 is a perspective view more particularly illustrating my improvements.

Referring to the drawings, 3 indicates the scraper-pan, 4 the usual arched axle, and 5 one of the wheels. 6 indicates the usual operating-lever, which, as shown in Fig. 1, is provided with forwardly-extending side bars 7, which are connected to the upright portions of the arched axle in the usual way and serve to suspend the pan 3 by bars 8, which are rigidly connected to the sides of the pan and are pivoted by pivots 9 to the side bars 7 of the lever 6 forward of the axle. The lever 6 is also provided with a central arm 10, which projects forward over the arch of the axle 4, as shown in Fig. 1. 11 indicates the usual draft-bail connected at its rear ends to pivots 12, carried by the pan, as shown in Fig. 1. 13 indicates the usual hooks for engaging the

forward portion of the pan when in loading position, and 14 indicates the usual links for actuating said hooks. 15 indicates the usual handles, which are secured to the sides of the pan 3 and project rearwardly therefrom, as shown in Fig. 1. These parts are all old, and as their construction and operation are well known to those familiar with the art further explanation is believed to be unnecessary.

16 indicates the usual cleat secured to the rear of the pan near the center thereof and preferably a short distance from its upper edge, as shown in Fig. 2.

17 indicates a catch which is designed to support the rear portion of the pan when in carrying position, as illustrated in the drawings. As best shown in Fig. 2, the catch 17 is composed of a bar twisted so that the lower portion lies at right angles to the upper portion, and its lower end is bent to form a hook 18, adapted to engage the cleat 16. By thus twisting the catch 17 a broad or extended hook is provided for, thereby securing an extended wearing-surface besides adding to the strength of the catch. Furthermore, the upper portion of the catch is thus made parallel with the lever 6, to which it is pivoted by a pivot 19. The catch 17 rocks upon the pivot 19 to throw the hooks 18 toward or from the cleat 16, and it may be rocked by hand to release the cleat by means of an arm 20, provided at its upper end, as shown in Fig. 2, said arm being formed by bending the upper end of the catch 17 backward, so that it extends back nearly parallel with the lever 6 and almost immediately thereover. It is thus accessible to the operator, who may release the cleat 16 by simply pulling up on the arm 20. By thus arranging the arm 20 it is placed high enough so that it cannot be struck by obstructions over which the scraper passes and the pan thereby accidentally released, as not infrequently happens with the construction formerly in use, where the operating-arm for the catch extended below the lever 6. The hook 18 is normally thrown forward by a spring 21, which at its upper end is secured to the

upper portion of the catch 17 and at its other end is connected, by a pin 22 or other suitable means, to the lever 6 at a point back of the pivot 19. The spring 21 serves to hold the hook 18 normally in engagement with the cleat 16 and tends to prevent accidental disengagement thereof.

23 indicates a bar which connects the side bars 7 of the lever 6. As illustrated in Fig. 2, the bar 23 lies over or slightly back of the rear edge of the pan 3. It serves not only to strengthen the side bars 7, but also as a stop to limit the forward movement of the lower portion of the catch 17, thereby preventing its lower end from projecting far enough forward to strike the upper edge of the pan when the lever 6 is operated to raise the pan into carrying position.

24 25 indicate braces which connect the lever 6 and the bar 23, as shown in Fig. 2.

Having thus described specifically the construction illustrated in the accompanying drawings, I wish it to be understood that my invention is not restricted to the specific details of the construction described, except in so far as they are particularly claimed.

That which I claim as my invention, and desire to secure by Letters Patent, is—

1. In a wheeled scraper, the combination of an operating-lever, a catch pivotally connected therewith and having a rearwardly-extending arm above said lever, means carried by said catch below its pivot for engaging the scraper-pan, and a stop for limiting the forward movement of the lower portion of said catch, substantially as described.

2. In a wheeled scraper, the combination of an operating-lever, a catch pivotally connected therewith and having a rearwardly-extending arm above said lever, means carried by said catch below its pivot for engaging the scraper-pan, a stop for limiting the forward movement of the lower portion of said catch, and a spring for holding said catch normally in engagement with the pan, substantially as described.

3. In a wheeled scraper, the combination of an operating-lever, a catch pivotally connected therewith and having a rearwardly-extending arm above said lever, means carried by said catch below its pivot for engaging the scraper-pan, and a spring for normally hold-

ing said catch in engagement with the pan, substantially as described.

4. In a wheeled scraper, the combination of an operating-lever, a catch consisting of a bar twisted intermediately at right angles and having its lower end bent to form a hook, whereby a hook having an extended surface is provided, the upper portion of said catch being pivotally connected to the operating-lever, substantially as described.

5. In a wheeled scraper, the combination of an operating-lever, a catch pivoted thereto and adapted to engage the pan, and a spring connected to said catch above its pivot, said spring being connected with the operating-lever at a point back of the pivot of the catch, substantially as described.

6. In a wheeled scraper, the combination of an operating-lever, a catch pivoted thereto and adapted to engage the pan, and a spring connected to said catch above its pivot, said spring being connected with the operating-lever at a point back of the pivot of the catch, said catch having a rearwardly-extending arm above the operating-lever, substantially as described.

7. In a wheeled scraper, the combination of an operating-lever, a catch pivoted thereto and adapted to engage the pan, a spring connected to said catch above its pivot, said spring being connected with the operating-lever at a point back of the pivot of the catch, and a stop for limiting the forward movement of the lower portion of said catch, substantially as described.

8. In a wheeled scraper, the combination of an operating-lever, forwardly-extending bars connected therewith, a catch adapted to engage the pan and support it while in carrying position, said catch being pivotally connected with the operating-lever, a spring arranged to throw forward the lower portion of said catch, and a stop adapted to limit the forward movement of said catch, said stop consisting of a bar having its ends connected with said forwardly-extending bars of the operating-lever, substantially as described.

THOMAS R. McKNIGHT.

Witnesses:

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