

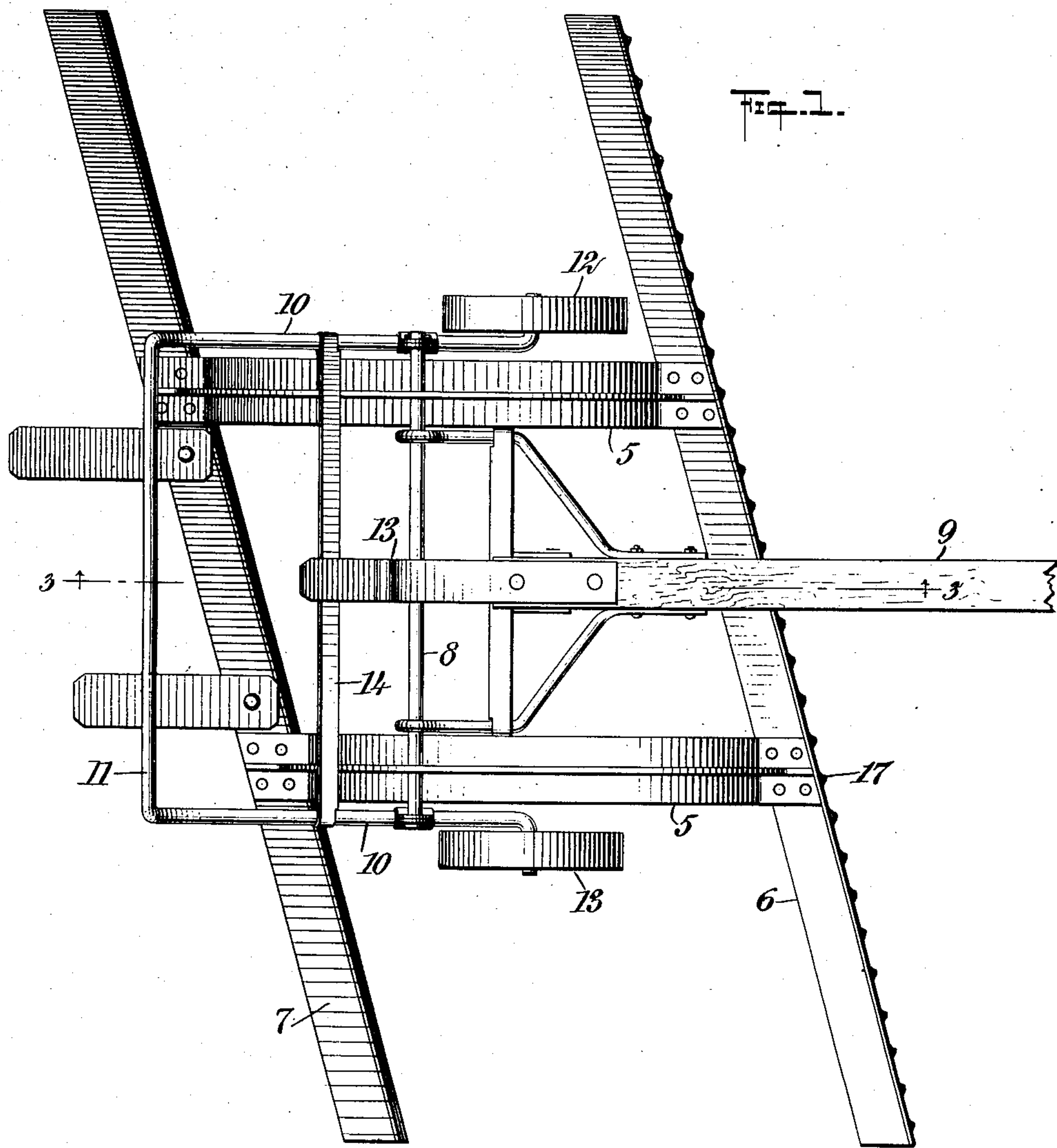
No. 814,446.

PATENTED MAR. 6, 1906.

J. HARTER.  
DIRT SCRAPER.

APPLICATION FILED MAR. 18, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

*John C. Cheney*  
*C. R. Ferguson*

INVENTOR

*Joseph Harter*

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*Munn*

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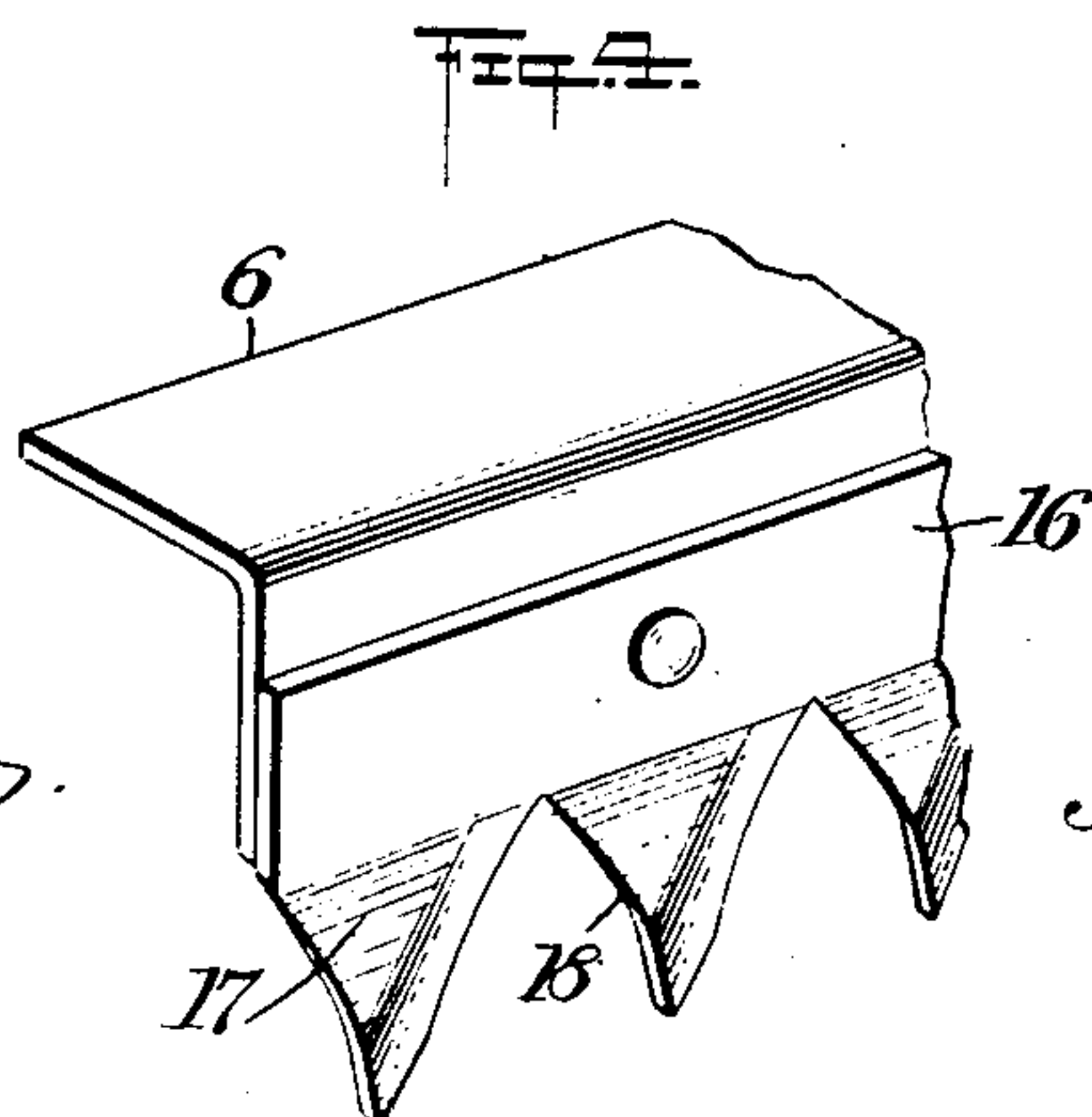
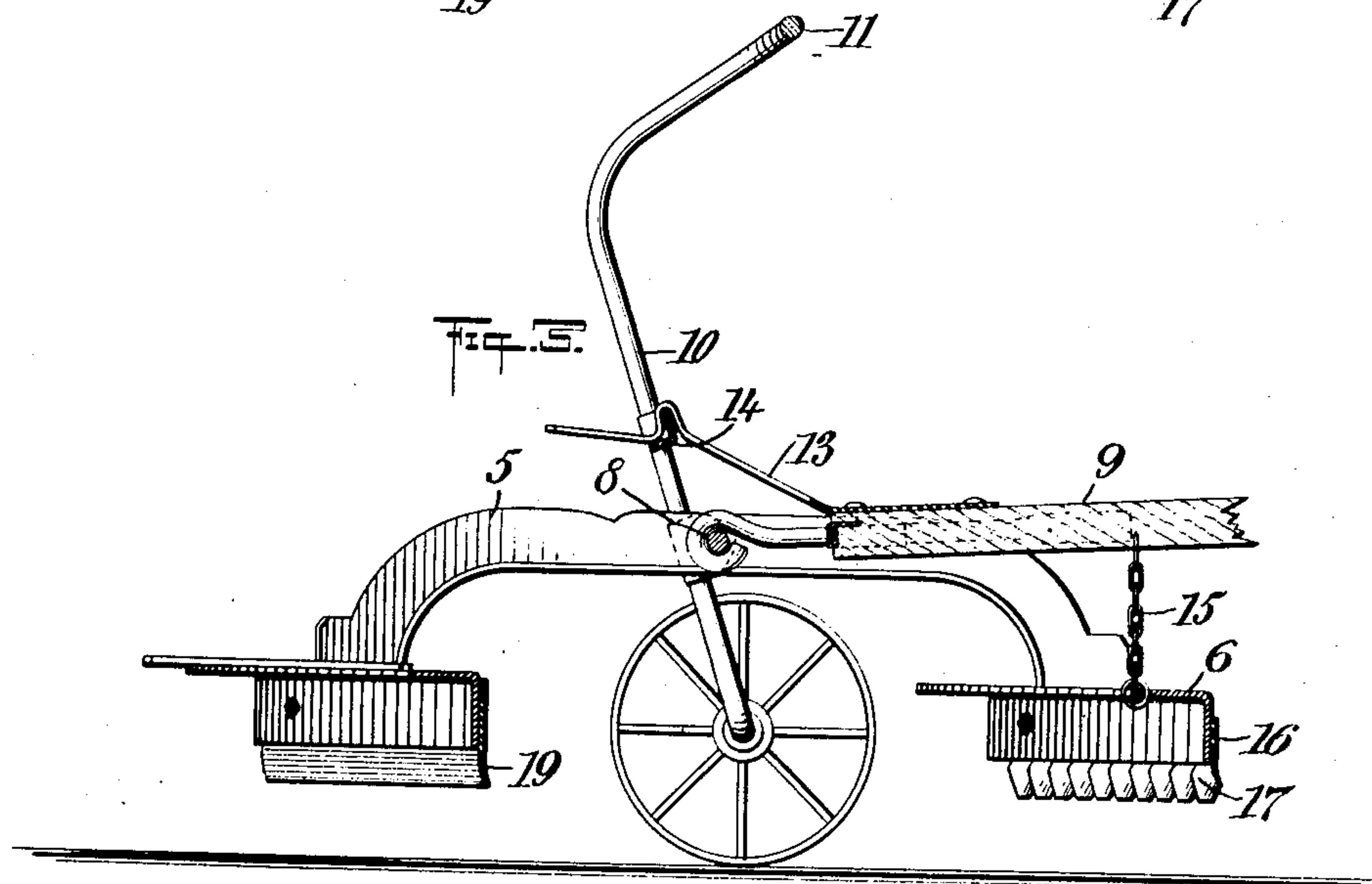
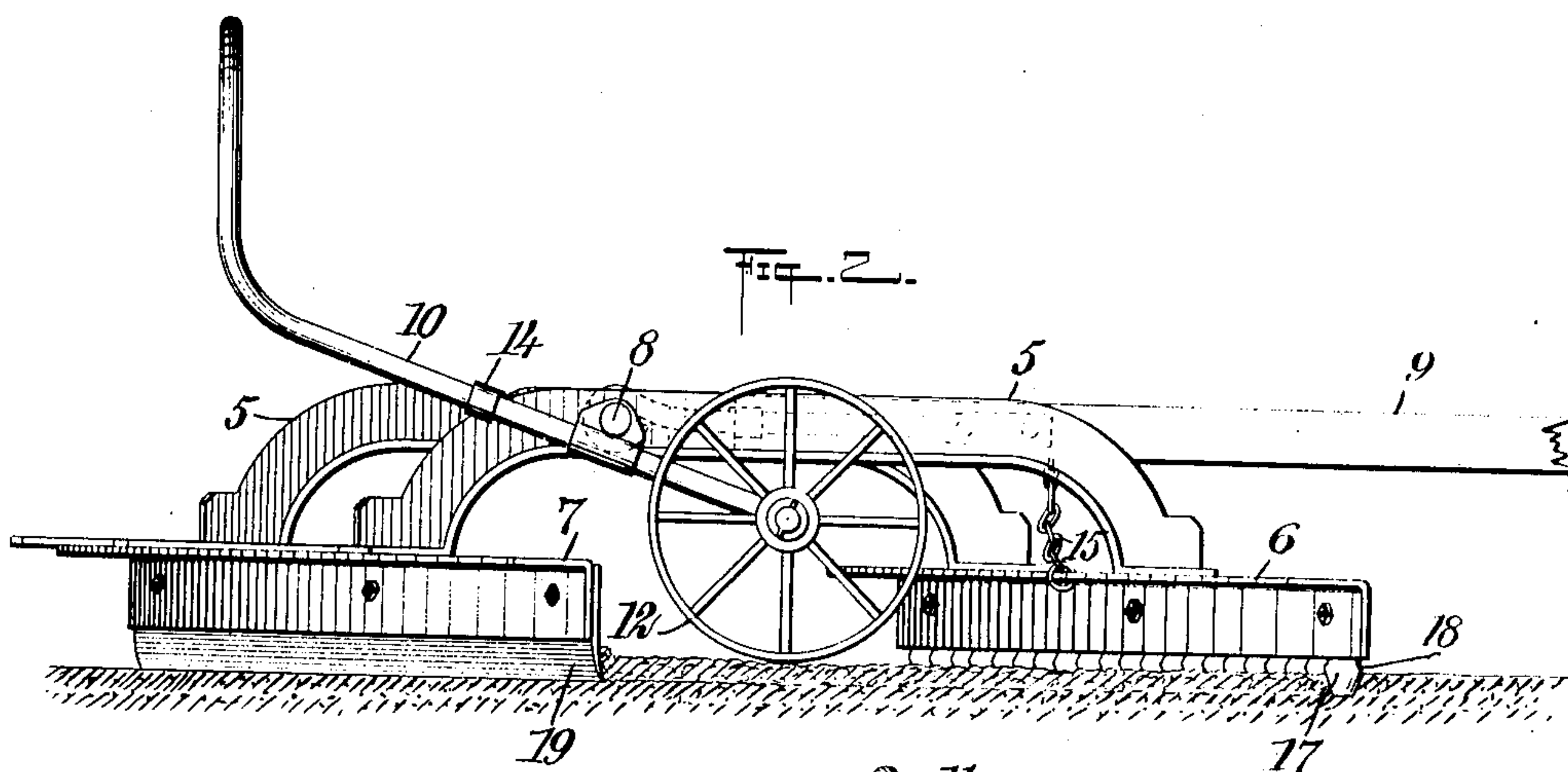
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WITNESSES:

*C. A. Ferguson*

INVENTOR

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# UNITED STATES PATENT OFFICE.

JOSEPH HARTER, OF TIFFIN, OHIO.

## DIRT-SCRAPER.

No. 814,446.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed March 18, 1905. Serial No. 250,755.

*To all whom it may concern:*

Be it known that I, JOSEPH HARTER, a citizen of the United States, and a resident of Tiffin, in the county of Seneca and State of Ohio, have invented a new and Improved Dirt-Scraper, of which the following is a full, clear, and exact description.

This invention relates particularly to improvements in dirt-scrapers for road and field work, the object being to provide a scraper of simple and novel construction and operating to thoroughly harrow or break up the dirt of a road or field and then smooth the same.

I will describe a dirt-scraper embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan of a dirt-scraper embodying my invention. Fig. 2 is a side elevation thereof. Fig. 3 is a section on the line 3 3 of Fig. 1, and Fig. 4 is a detail perspective of a ground-breaker employed.

The frame of the machine comprises side members 5, which are arched upward from the ends, these ends being connected to beams 6 7 on the front and rear portions of the frame. These front and rear beams 6 7 are in the form of angle-irons, and they are extended with diagonal relation to the frame members 5, and their ends are projected considerably beyond the outer sides of said frame members 5. The diagonal arrangement of the front and rear bars or members is to cause a thorough breaking and scraping, with a lateral movement of the earth.

Extended through the upwardly-projecting web portions of the frame members 5 is a rod 8, with which the draft-pole 9 has swinging connection. Attached to the outwardly-extended ends of the rod 8 are vertical side members 10 of a handle-bar 11. On the outwardly-turned ends of the members 10 and below the rod 8 the supporting-wheels 12 are journaled.

As a means to support the bars carrying the cutting devices and scraper, to be hereinafter described, considerably above the ground when it is desired to move the machine from

place to place without operating in the ground the handle 11 is to be swung forward, so that a latch-hook 13 on the rear end of the pole 9 will engage over a flat bar 14, attached to the side members 10 of the handle mechanism. This position of parts is clearly illustrated in Fig. 3.

To prevent the pole 9 from swinging too far upward relatively to the bar 6, the said two parts are connected by a chain 15. Attached to the forward portion of the bar 6 is a plate 16, on the lower edge of which teeth 17 are formed for cutting into or breaking the ground. These teeth, as clearly indicated, have a slight vertical twist, so that the cutting edge of each tooth is slightly forward of its opposite edge, as indicated at 18, thus forming a cutter for moving the ground broken up at a slight lateral trend. Attached to the front side of the bar 7 is a scraper-plate 19, the lower edge of which is curved downward and forward.

In the operation when the parts are in the position indicated in Fig. 2 the teeth 17 will be forced slightly into the ground and turn or break the same, as before mentioned. Then the scraper-plate 19 will operate to level and smooth the dirt. If found desirable in practice, the scraper-plate 19 may be removed and a plate 16 substituted therefor.

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

1. A dirt-scraper comprising a frame having side bars, a front bar and a rear bar, the said front and rear bars being arranged diagonally with relation to said side bars, a rod mounted to turn in bearings in the side bars, a handle having side bars connected to said rod, wheels pivoted to said side members, and means for holding the wheels in downward position to raise the frame and the blades carried thereby from the ground.

2. A dirt-scraper comprising a frame having side members and front and rear members, the said front and rear members being arranged diagonally with relation to the side members, breaking-teeth carried by the front member, a scraper carried by the rear member, a rod having bearings in the side members, a tongue having swinging connection

with said rod, a handle having side members  
connected to said rod, wheels mounted on  
the side members below their connections  
with said rod, a bar connecting with the side  
5 members of the handle, and a hook-clip for  
engaging with said bar.  
In testimony whereof I have signed my

name to this specification in the presence of  
two subscribing witnesses.

JOSEPH HARTER.

Witnesses:

BRAYTON CRISLIP,  
MILTON SAYLER.