

C. H. CASNER.

ROAD SCRAPER.

APPLICATION FILED JUNE 3, 1910.

966,081.

Patented Aug. 2, 1910.

FIG. 1.

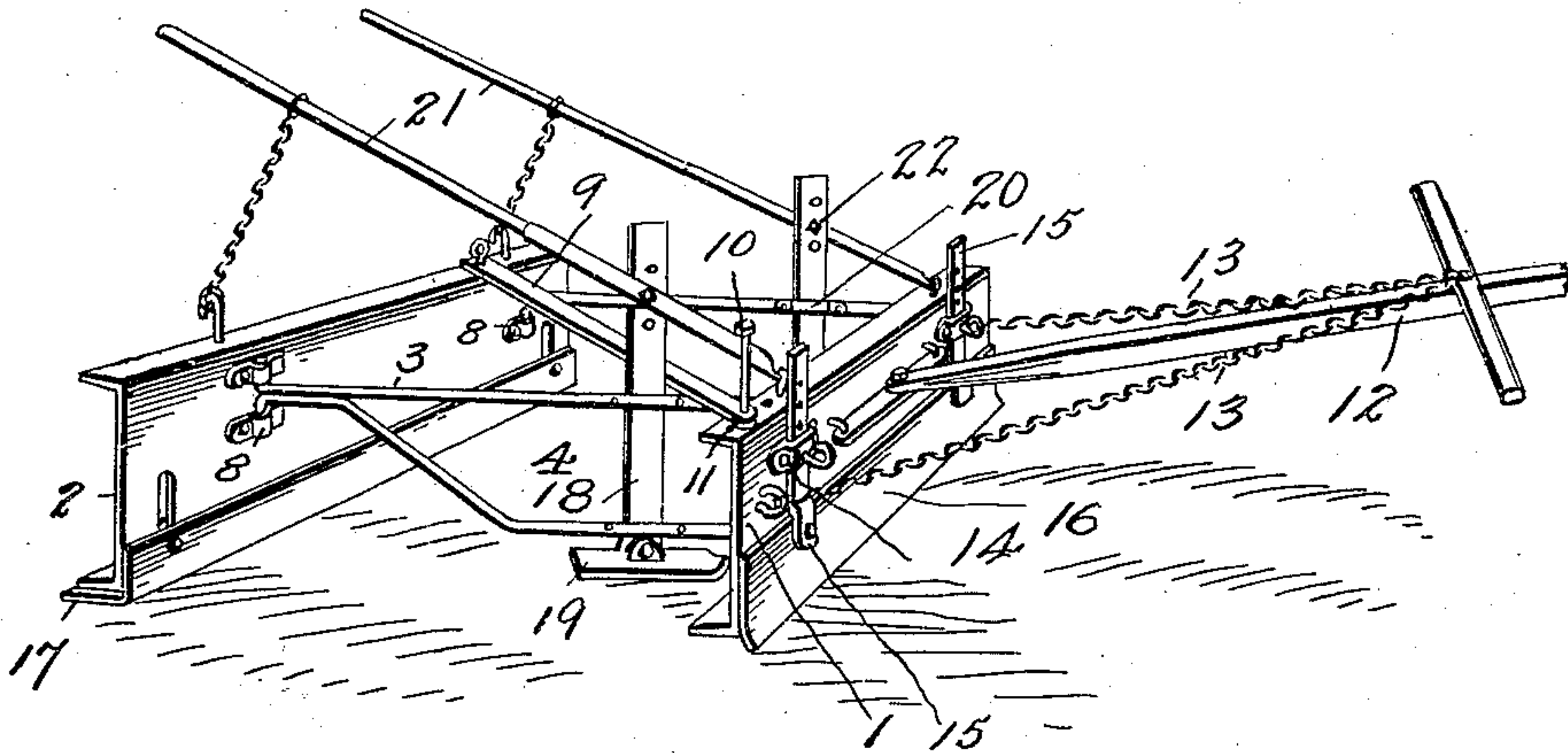


FIG. 2.

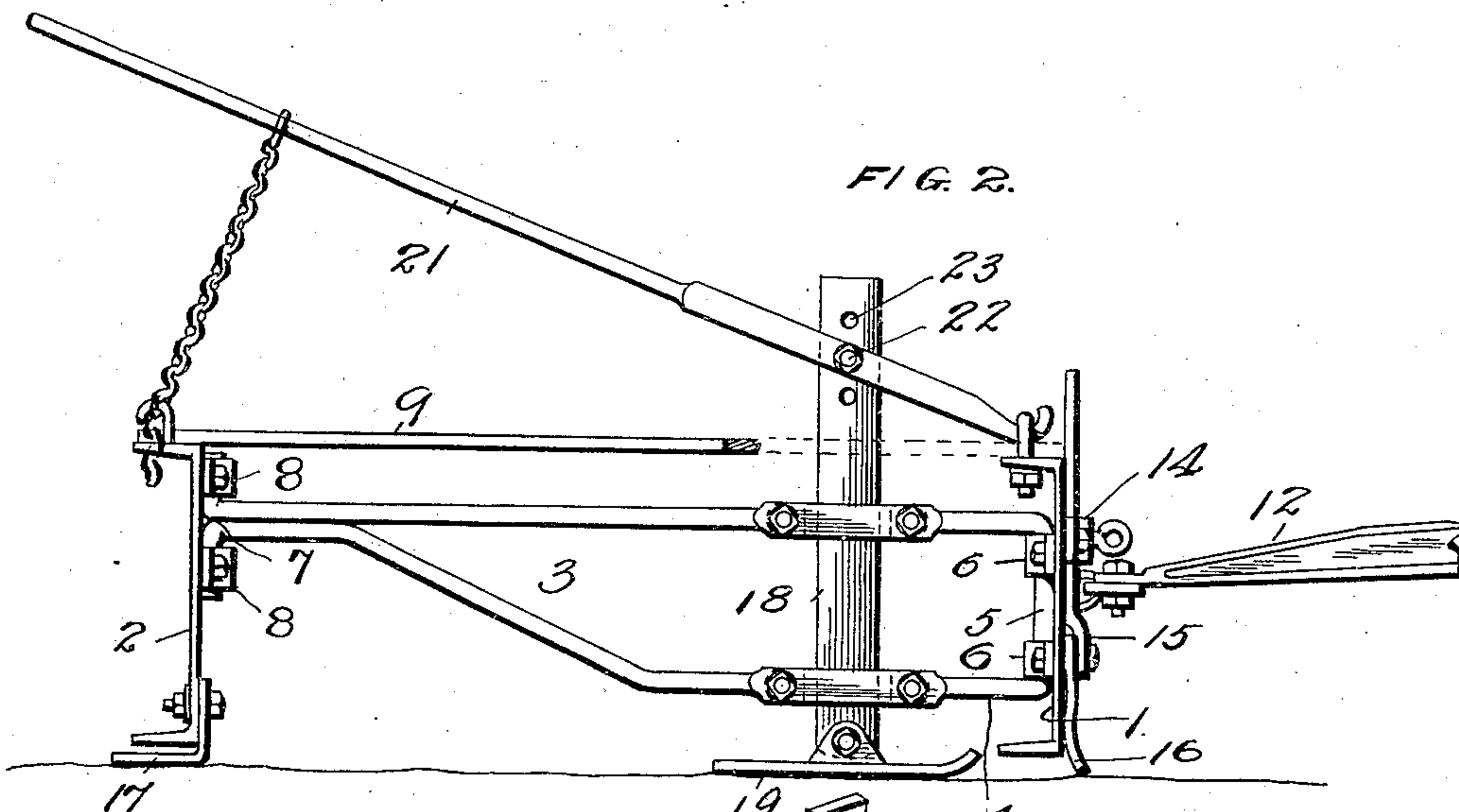
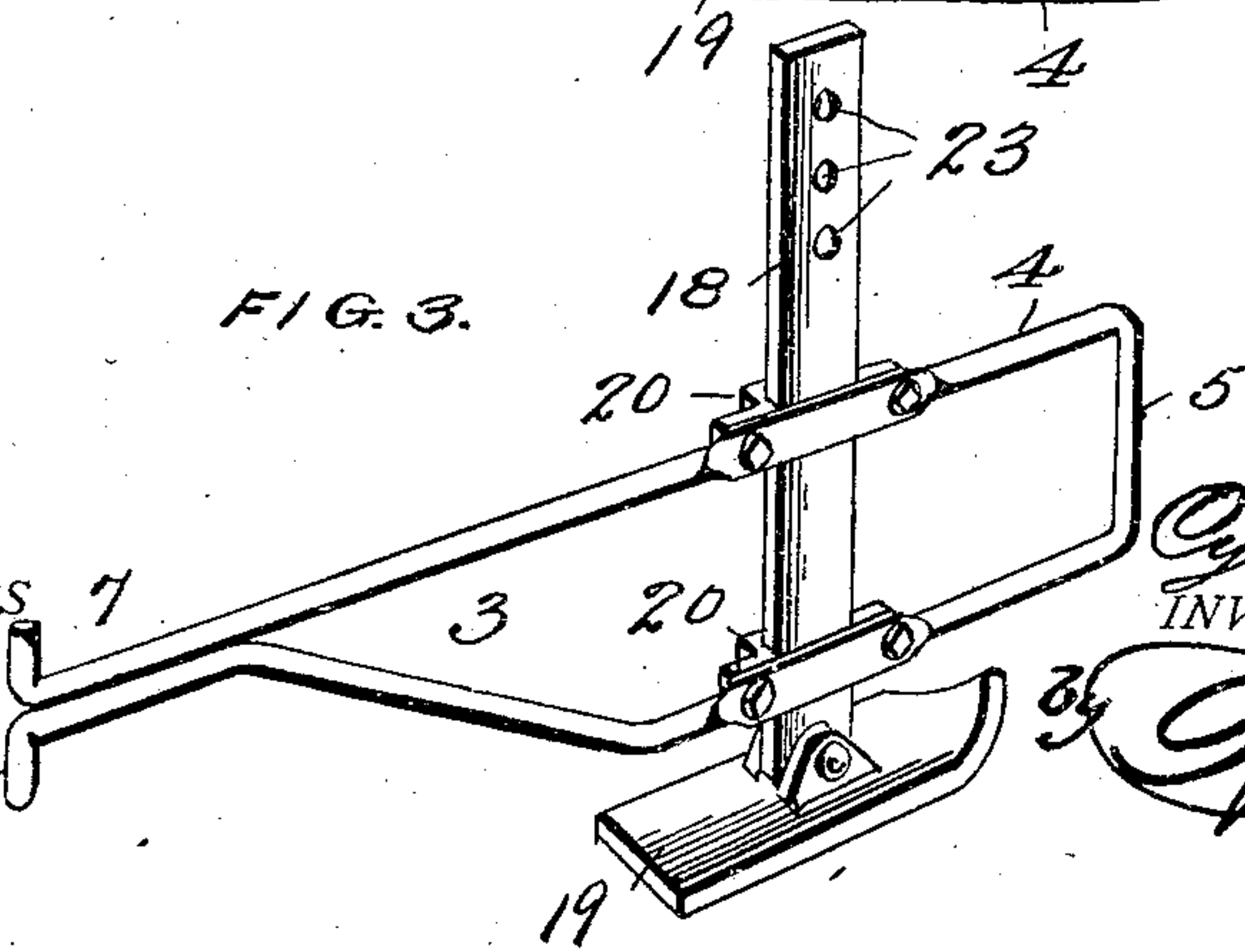


FIG. 3.



WITNESSES

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ROAD-SCRAPER.

966,081.

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To all whom it may concern:

Be it known that I, CYRUS H. CASNER, a citizen of the United States, residing at Hepburnville, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Road-Scrapers, of which the following is a specification.

My invention relates to improvements in road scrapers, and the object of my invention is the provision of an improved scraper having two blades adapted to be set at an angle to the line of draft of the device, the further object of the invention being the provision in connection with said blades of means for elevating one of the blades above and out of contact with the road and supporting it in said position during the movement of the scraper.

To attain the desired object, my invention consists in a road scraper having a series of sled or runner members secured thereto and adapted to be moved to support one of the blades of the scraper, the invention further residing in the novel features of construction and combination and arrangement of parts for service substantially as described and as illustrated in the accompanying drawing.

Figure 1 represents a perspective view of my complete scraper. Fig. 2 represents a side elevation thereof, and Fig. 3 represents a perspective view of one supporting runner and blade connecting link, a plurality of which are preferably employed in the construction of my scraper.

The numeral 1 designates the front bar or plate of my scraper and the numeral 2 the rear bar thereof, said bars being connected by the links 3 formed from a single piece of bar metal having the open loop portion 4 with the vertical portion 5 pivotally secured by brackets 6 to the bar 1 and having its ends 7 bent at right angles and pivotally secured to the bar 2 by the brackets 8.

Pivotally secured to the rear bar 2 at its upper edge is a brace 9, said brace extending diagonally from the rear to the front plate and being secured to the front plate by the bolt 10 adapted to be engaged in one of a series of openings 11, the securing of the bolt in the different openings shifting the rear blade on the connecting links.

Pivotally secured to the front bar is a tongue 12, chains 13 being adjustably secured to the front bar and to the tongue, the

adjustment of said chains serving to vary the angle the blades make with the line of draft. Brackets 14 are also secured to the front plate, and adjustable vertically in said brackets are the rods 15 having the scraper blade 16 secured to their lower ends, the adjustment of the blades serving to cause either the blade or the front plate to bear upon the soil according to whether it is desired to employ the machine for scraping or as a drag. The rear plate is intended to serve as a drag at all times and is provided with a removable shoe 17 to prevent wearing of the plate proper.

When I desire to employ my machine solely as a drag or to temporarily elevate the front plate and blade in order that the same may pass over stones or other slight obstructions, I provide the bars 18 having the shoes 19 pivotally secured to their lower ends, said bars being mounted in and movable through the brackets 20 carried by the loop portion of the links 3 while pivotally secured to the front plate are the levers or handles 21 fulcrumed on the bolts 22 engaged in one of the series of openings 23 in the bars 18, thus providing an adjustable fulcrum for the levers.

From the foregoing description taken in connection with the drawings the construction of my scraper will be readily understood and it will be seen that when I desire to elevate the scraper blade it is merely necessary to depress the outer ends of the levers which force the runners 19 into tight engagement with the road and with the bars and upon further movement lifts the front portion of the machine, the bolts 22 supported by the bars 18 serving as the fulcrums of the levers and supporting the weight of the front portion of the machine, the bars rocking on their pivotal connections with the shoes to permit the rear or drag portion of the machine to remain in contact with and be supported by the road. To secure the scraper portion of the machine in elevated position I secure to the handles the chains or connections 24 adapted to be engaged by the hooks 25 carried by the plate 2 for securing said levers in adjusted position.

From the foregoing description the operation and advantages of my improved scraper will be fully apparent and it will be seen that I provide a machine capable of use either as a scraper and drag, as a double drag or as a single drag, it being further

evident that I have provided improved simple, strong, durable and efficient means for elevating the scraper blade out of contact with the soil and for securing it in elevated position.

I claim:

1. In a road scraper, the combination with a pair of pivotally connected frame members, of means for securing the same in adjusted position, blades secured to said frame members, and means for elevating one of said members out of contact with the road.

2. In a road scraper, the combination with a drag and a scraper member, of runners located intermediate said members, and means bearing upon said runners for elevating one of said blades out of contact with the road.

3. In a road scraping machine, the combination with scraping and drag members, of runners depending therebetween, and means for shifting said runners to cause the same to support the scraper blade out of engagement with the surface over which it passes.

4. In a road scraping machine, the combi-

nation with scraping and dragging members, of means connecting the same, brackets carried by said means, bars mounted in the brackets, runners pivotally secured to the lower end of said bars, and a lever pivotally secured to the scraper member and fulcrumed on the bar for elevating the scraper and supporting the weight thereof on the runners.

5. A road scraping machine, comprising a scraper blade, a drag member located rearwardly thereof, runners carried by the machine intermediate said members, and connections between the scraper and runners for rocking the scraper upward on the drag as a pivot and for securing it in said position with its weight supported by the runners.

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

CYRUS H. CASNER.

Witnesses:

J. C. HILL,
H. G. TROXELL.