No. 889,822. PATENTED JUNE 2, 1908.

C. H. SNYDER.

ROAD SCRAPER.

APPLICATION FILED FEB. 6, 1908.

2 SHEETS—SHEET 1.

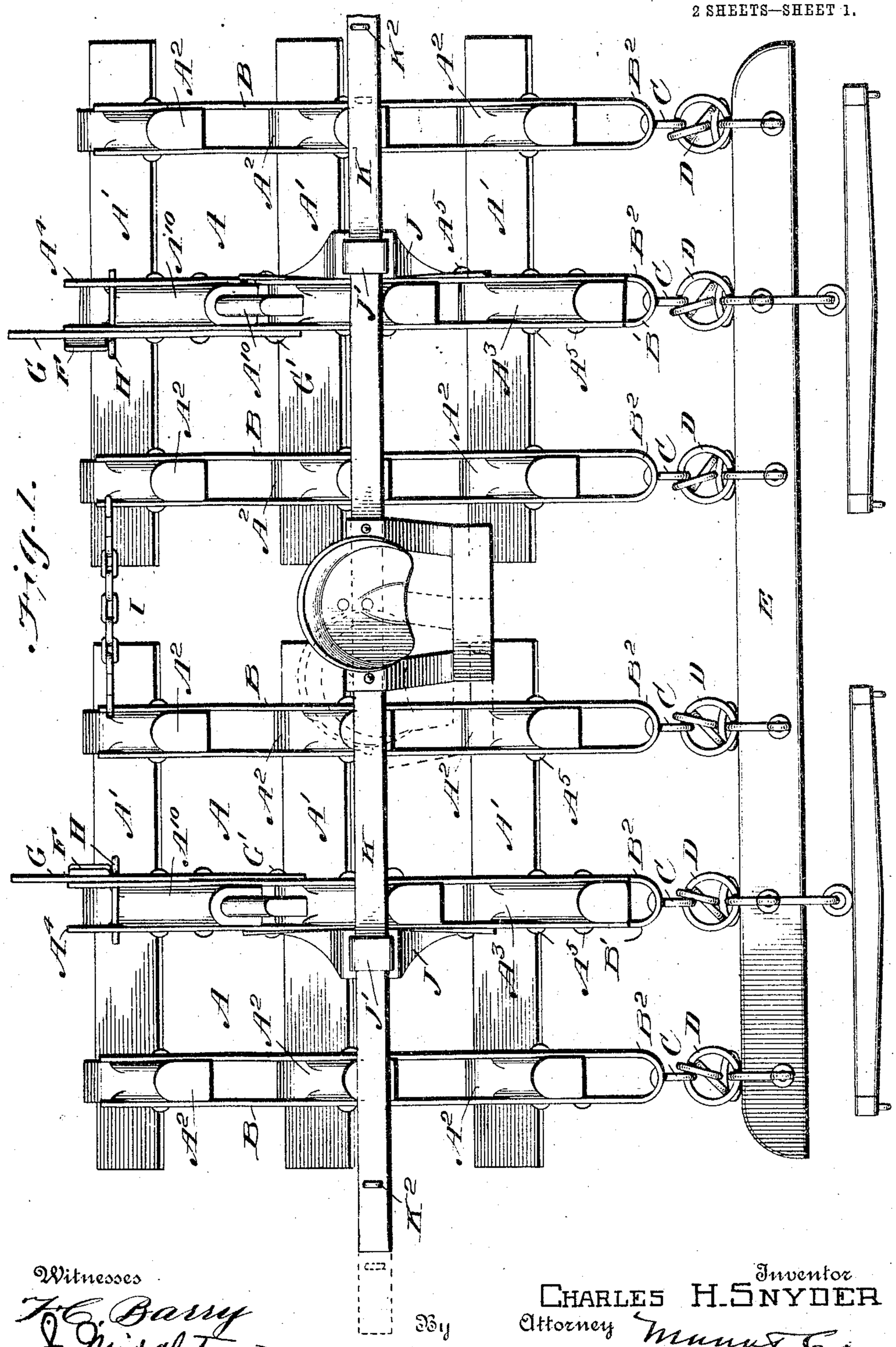

Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

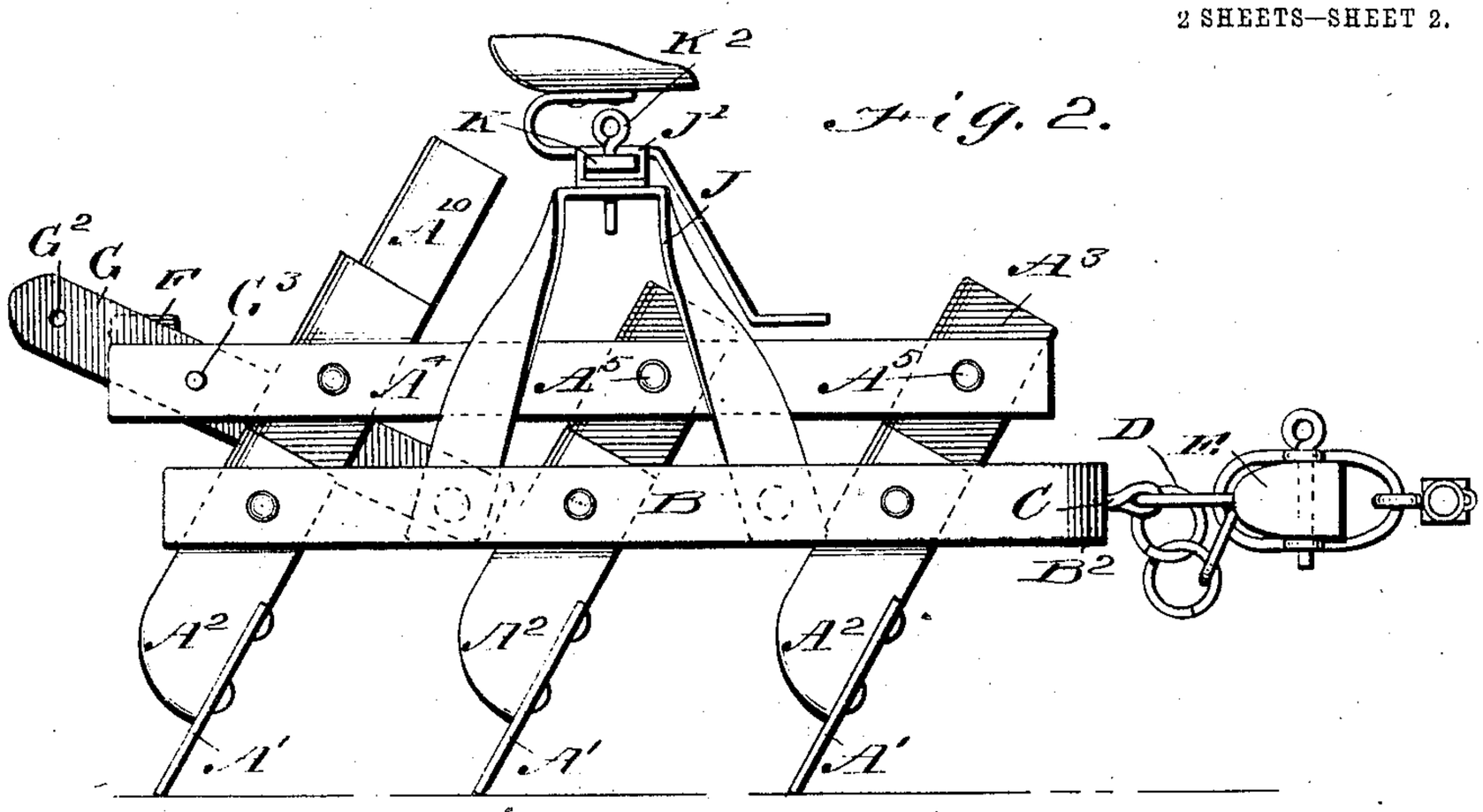

Fig. 5.

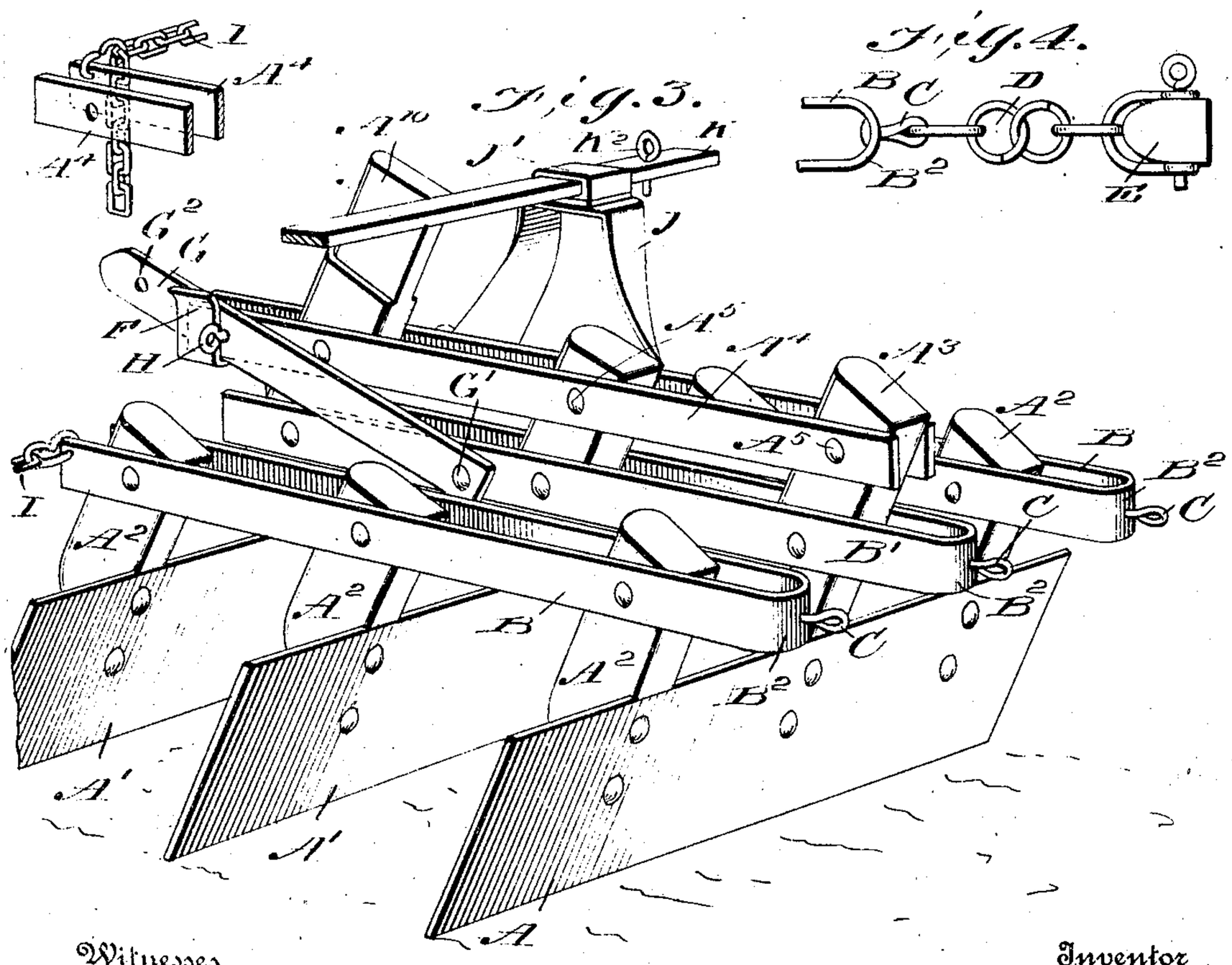

Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES H. SNYDER, OF PERCIVAL, IOWA.

ROAD-SCRAPER.

No. 889,822. Specification of Letters Patent. Patented June 2, 1908.

Application filed February 6, 1908. Serial No. 414,597.

To all whom it may concern:

Be it known that I, CHARLES H. SNYDER, a citizen of the United States, and a resident of Percival, in the county of Fremont and State of Iowa, have invented certain new and useful Improvements in Road-Scrapers, of which the following is a specification.

This invention is an improvement in road scrapers, especially designed for use as a four-horse road drag; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings Figure 1 is a top plan view of a scraper embodying my invention. Fig. 2 is a side view thereof. Fig. 3 is a detail perspective view of one of the side sections. Fig. 4 is a detail view illustrating the draft chains in a different adjustment from that shown in Figs. 1 and 2, and Fig. 5 is a detail perspective view illustrating the tie chain for connecting the rear ends of the opposite sections of the scraper.

In carrying out my invention I make the scraper with two side sections A, A, which are alike and are arranged side by side and being alike a description of one will answer for both. The side section A comprises the blades A′ arranged in series and one in rear of the other, and these blades are provided with standards A^2 and A^3, securely fastened at their lower ends to the blades and projecting upwardly therefrom, and the standards A^3 are made longer than the standards A^2, and project higher than the said standards A^2, and the several standards A^2 of each section are connected by links A^4 pivotally secured at A^5 to the said standards A^3, as best shown in Fig. 3 of the drawing.

The several standards A^2 ranging in series from front to rear are connected by beams B, and the intermediate standards A^3 are connected by beams B′, the said beams being alike and being pivotally connected with their respective standards, and the beams B′ form with the links A^4 a parallel ruler-like construction which permits the adjustment of the blades to any suitable angle in the operation of the invention. The beams B and B′ are composed of bars of metal bent at their middles at B^2 to form the opposite side bars, which extend back on opposite sides of their respective standards and the bent portions B^2 at the front end of the beams form seats in which are swiveled the links C for connection with the chains D leading to the evener bar E, as best shown in Fig. 1 of the drawings. It will be noticed that I provide these chains D between the evener bar E and each of the beams B and B′ and by taking up or letting out these short chains D, as will be understood from Figs. 1 and 4, the opposite sections can be set in any desired position.

In adjusting the blades to different inclinations, I provide one of the links A^4 at its rear end with a clasp F, which may be bent from the link and is open at its upper side to receive the upper rear end of the slide bar G, which is pivoted at its lower end G′ to the beam B′ and is provided near its upper end with the bolt holes G^2 which register with similar holes G^3 in the links G^4 to receive a pin H, the said construction operating when adjusted as shown, for instance in Figs. 2 and 3, to form a positive connection between the beam B′ and the link A^4, and thus securing the blades in any suitable adjustment to which they may be set in the use of the invention. This construction is simple, easily operated, and provides an efficient means for securing the blades of the scraper in any desired adjustment. A chain I connects the sections A at their rear ends and prevents said sections from spreading too far in the operation of the invention.

Brackets J on the opposite sections are secured to the beams B′ and project upwardly therefrom and are provided with laterally opening loops J′ in which the seat bar K carrying the seat K′ is movable laterally so more or less of the rider's weight may be exerted upon one or the other of the sections A, as may be desired, pins K^2 on the bar K limiting the lateral movement of said bar as shown in the drawings. It will be noticed that each section has its blades provided with intermediate standards A^3 and with the side standards and for convenience in adjusting the blades to different angles, I prefer to provide the rear intermediate standard with an extension A^{10} forming a handle or lever for use in adjusting the angle of the different blades when the detent H is released.

In operation the drag may be set to draw the dirt from both sides of the road, and to fill up and smooth all ruts in both wagon tracks, and when the sections are set with the blades straight across, the drag may be operated to pulverize and smooth the road.

It will be understood that each section may be set to any desired position by adjusting

the drag chains D, as before suggested, and the blades can be set to various angles by properly manipulating the adjusting slides G, as described.

I claim—

1. The improved road scraper herein described, comprising a pair of sections each side by side, each section having blades arranged one in rear of the other and provided with upwardly projecting intermediate and side standards, beams connecting their respective standards and pivoted thereto, links pivoted to and connecting the intermediate standards above the beams thereof and provided with clasps opening upwardly, adjusting slides pivoted at their lower ends to the beams of the intermediate standards and inclining thence upwardly and rearwardly, and resting in the clasps of their respective links, said adjusting slides and links having coincident openings, and a pin operating in said openings, brackets projecting upwardly from the opposite sections and provided above the same with laterally opening loops, a seat, a seat bar supporting the seat and held in said laterally opening loops, an equalizer bar extending in advance of the opposite sections, and chains connecting said bar with the beams of the opposite sections, substantially as set forth.

2. In a scraper substantially as described the combination of a series of blades arranged one in rear of the other and provided each with an intermediate upwardly projecting standard and with upwardly projecting standards on opposite sides thereof, beams extending between and pivoted to their respective standards, links pivoted to and extending between the intermediate standards, and above the beam thereof, and an adjusting slide between the beam and links of the intermediate standard whereby to secure the same in different adjustments, substantially as set forth.

3. The combination in a road scraper with the blades arranged in series one in rear of the other and provided with upwardly projecting intermediate and side standards, beams pivoted to and connecting their respective side standards, a beam pivoted to and connecting the intermediate standards, a link connecting said intermediate standards above the beam thereof, said link being provided with an upwardly opening clasp, an adjusting slide pivoted to the beam of the intermediate standards and fitting in said clasp, and means for securing the said slide in different adjustments to the link, substantially as set forth.

4. A road scraper comprising a series of blades arranged one in rear of the other and provided with upwardly projecting standards and beams for said standards composed of bars bent between their ends forming side bars lapping on opposite sides of their standards and fitted thereto, and draft links in the bent forward ends of the said beams, substantially as set forth.

5. The combination in a road scraper of the opposite sections, having blades and means for adjusting the same to different angles, brackets mounted on said sections and provided with laterally opening loops, a seat bar held in said loops, and a draft beam extending across the front end of said sections, and connected therewith, substantially as set forth.

6. In a road scraper substantially as described the combination of blades having upwardly projecting intermediate and side standards and having beams pivoted to and connecting their respective sections, one of the intermediate standards being provided with an upwardly projecting portion forming a handle in adjusting the angle of the blades, a link connecting the intermediate standards above the beam thereof, and adjusting means between said link and beam, substantially as set forth.

7. The combination of a series of scrapers having upwardly projecting standards and arranged one in rear of the other, a beam pivoted to and connecting said standards, a link pivoted to and connecting the standards above the said beam, and an adjusting slide extending between the beam and standard and adjustably connected with one of said parts, substantially as and for the purpose set forth.

CHARLES H. SNYDER.

Witnesses:
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