

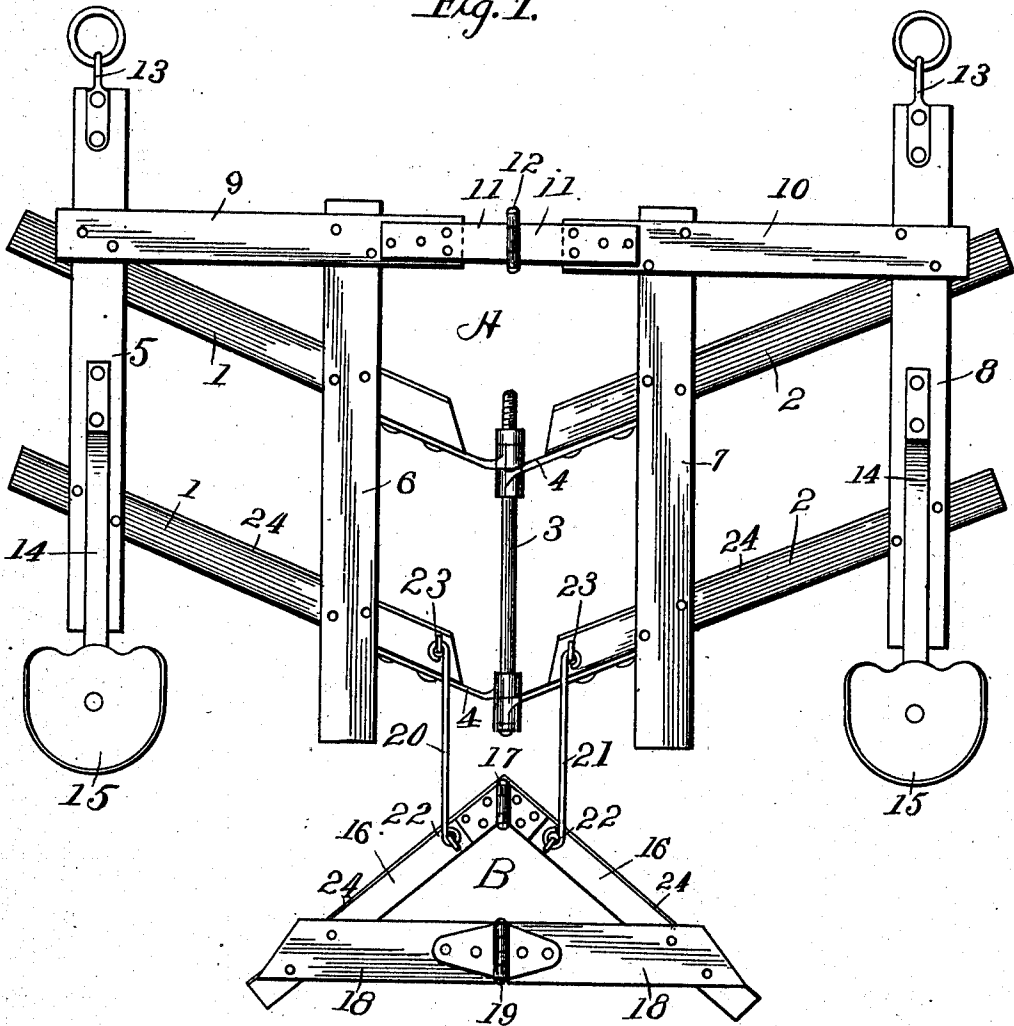
G. W. SPICER.
ROAD SCRAPER.
APPLICATION FILED MAY 7, 1909.

970,966.

Patented Sept. 20, 1910.

2 SHEETS-SHEET 1.

Fig. 1.



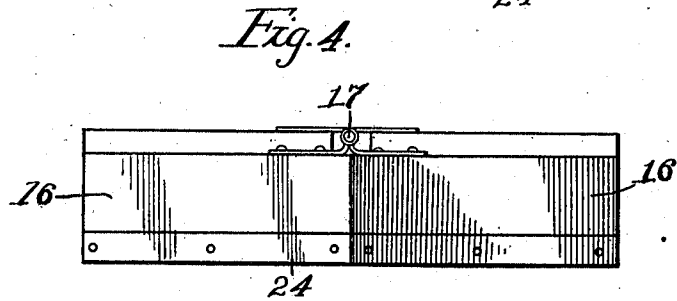
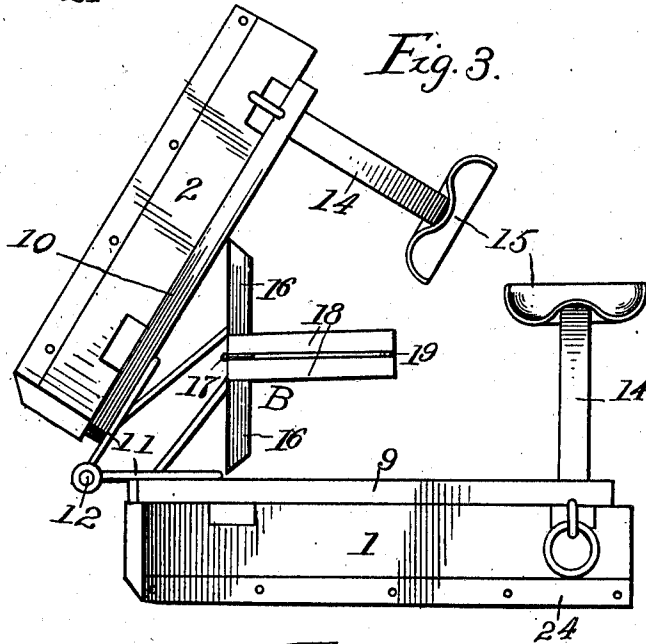
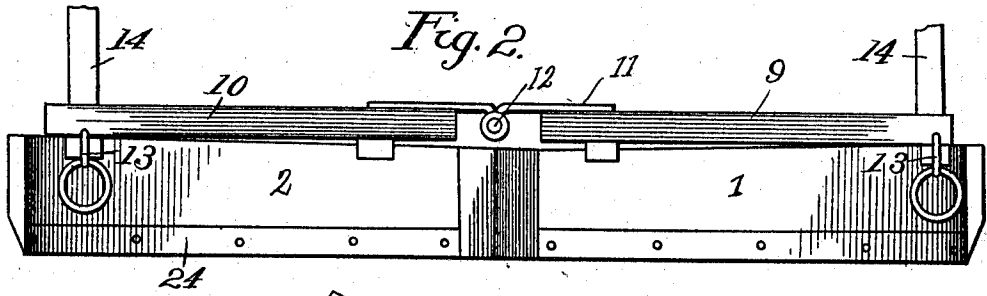
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APPLICATION FILED MAY 7, 1909.

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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ROAD-SCRAPER.

970,966.

Specification of Letters Patent. Patented Sept. 20, 1910.

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To all whom it may concern:

Be it known that I, GEORGE W. SPICER, a citizen of the United States, residing at Peru, in the county of Miami and State of Indiana, have invented certain new and useful Improvements in Road-Scrapers, of which the following is a specification.

This invention relates to road scrapers.

One object of the invention is to provide a road scraper embodying such characteristics that it will insure an efficient scraping of the road and provide for an efficient leveling of the center of the road subsequent to the scraping thereof.

Another object of the invention resides in the provision of a road scraper embodying such characteristics that it may be readily folded so that it may be easily transported from one place to another.

With the above and other objects in view, the present invention consists in the combination and arrangements of parts herein-after more fully described, illustrated in the accompanying drawings and particularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a plan view of my invention. Fig. 2 is a front elevation. Fig. 3 is an elevation illustrating the device in its folded condition for transportation over a road. Fig. 4 is a front elevation of the leveling device disconnected from the drag.

Referring now more particularly to the accompanying drawings, the reference character A indicates a drag or scraper embodying the preferred form of my invention, in which it will be seen that I employ opposite sets of scraping bars 1 and 2 with the sets diverging forwardly from each other and connected together at their inner ends through the instrumentality of a pintle rod 3 upon which latter are rotatably connected the hinge strap elements 4, which may be connected in any suitable manner to the scraping bars.

The upper surfaces of the scraper bars 1 and 2 are preferably notched to receive the respective beams 5 and 6 and 7 and 8, the outer beams 5 and 8 preferably extending forwardly beyond the forward ends of the beams 6 and 7 and not extending at their

rear ends beyond the rear ends of the beams 6 and 7.

Connected to the forward ends of the beams 5 and 6 is a cross piece 9, while connected to the forward ends of the beams 7 and 8 is a cross piece 10. The inner ends of these cross pieces 9 and 10 are spaced, and in their spaced relation connected together through the instrumentality of the hinge straps 11 and the hinge pintle 12, the latter being disposed in alinement with the hinge pintle 3 before referred to.

Connected to the device and preferably at the forward ends of the outermost beams 5 and 8 are draft appliances 13 for a purpose obviously understood, and upon the outermost beams I also connect the seat legs 14 of the seats 15, whereby the weight of the operators of the device, if two be employed, may be placed upon the device at both sides. Obviously, however, these seats 15 could be connected to the innermost beams 6 and 7, or if preferred a seat may be secured to each of the beams, or only one seat might be employed if desired, or none at all, for that matter.

The reference letter B indicates a trailer or leveling device, which is composed of two rearwardly diverging bars 16, whose divergency is the reverse to the divergency of the bars 1 and 2 of the main frame A of the device. These bars 16 are much shorter than the bars 1 and 2 and have their inner ends hingedly connected together at 17 with a cross piece 18 connected to the rear ends thereof and hingedly connected at 19 with the hinge connection 19 in alinement with the hinge connection 17, and preferably with both of the hinge connections 17 and 19 disposed in direct alinement with the hinge pintle 3 of the main structure. In fact, the leveling device is preferably disposed centrally of and in the rear of the main structure A and it is connected to the latter through the instrumentality of link connections 20 and 21 which are loosely connected at 22 to the leveling member B and at 23 to the main structure A. These link connections 20 and 21 provide for a slight lateral play of the leveler B and also permit of the placing of the leveler B upon the main frame A, as is clearly shown in Fig. 3.

In the use of the device for road scraping purposes, it is placed upon the road and pulled thereover in the usual manner, and

as the road is scraped, the dirt, owing to the forward divergency of the bars 1 and 2, is caused to be worked toward the center of the scraper and pass out rearwardly thereof
5 beneath the hinge pintle 3, when the leveler B causes that dirt which is forced toward the center of the road to be leveled, the rearward outward divergency of the bars 16 of the latter providing for an even leveling of
10 the roadway.

All of the elements composing my invention may be of any suitable material, and it will be understood that, if desired, I may provide wooden bars 1 and 2 and 16, and to
15 the forward edges of these wooden bars I may secure in any suitable manner metallic scraping strips 24, as clearly shown in the drawings.

When it is desired to take the device out
20 of commission, it is only necessary to fold the leveler B upon its hinges 17 and 19 and place the same upon one of the sections of the main structure A. The main structure is then folded upon its hinge connections, as
25 shown in Fig. 3, with the leveler B between the sections. The device may then be drawn along with the bars 1 or 2, according to which section is not folded over upon the other, and the bars still remaining upon the
30 ground may be dragged longitudinally of the roadway to transport the device after the fashion of a sleigh, as will be understood.

What is claimed is:—

35 1. In a scraping device, a main frame including pairs of beams, a cross piece connecting each pair of beams, a hinge connection between said cross pieces, front and

rear pairs of scraper bars secured to said beams, the pairs of scraper bars diverging
40 forwardly, means for hingedly connecting the pairs of scraper bars together thereby forming the main frame into two sections, whereby one section of the main frame may
45 be folded upon the other section thereof and said other section serve as a runner to transport the device, a leveling frame including rearwardly diverging scraper bars hingedly
connected together, and link connections between the rear scraper bars of the main
50 frame and the scraper bars of the leveling frame, the leveling frame being smaller than the main frame and when folded adapted to be disposed between the folded sections of
the main frame without disconnecting said
55 link connections and thereby transport the leveling frame upon said runner section.

2. In a scraping device, a frame including pairs of beams, a cross piece connecting each
60 pair of beams, a hinge connection between said cross pieces, front and rear pairs of scraper bars secured to said beams, hinges connected to the inner ends of said scraper bars, and a single hinge pintle extending
65 through said hinges, thereby forming the frame into two sections, whereby one section of the frame may be folded upon the other section thereof and said other section thereof serve as a runner to transport the device.

In testimony whereof I affix my signature, 70
in presence of two witnesses.

GEORGE W. SPICER.

Witnesses:

JOHN W. VOLPERT,
AARON S. BERGER.