G. S. SPREYER.

TAIL BOARD SCRAPER.

APPLICATION FILED DEC. 18, 1918.

1,343,097.

Patented June 8, 1920.

2 SHEETS—SHEET 1.

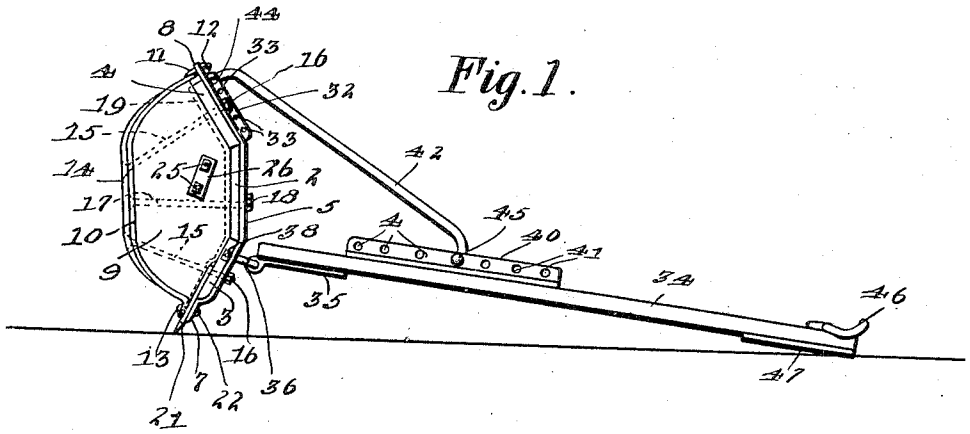


Fig. 1.

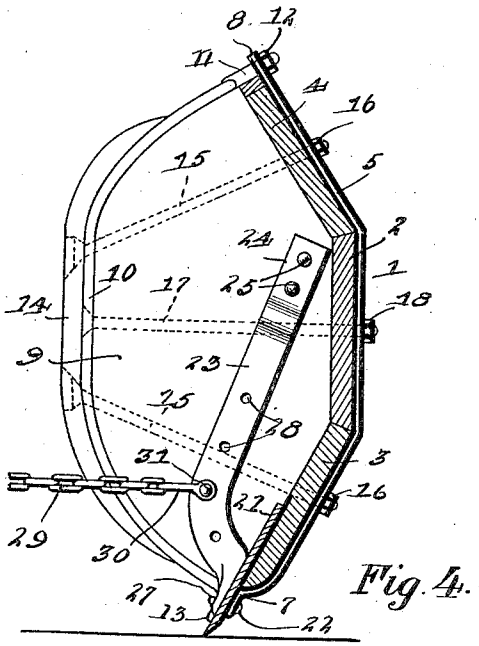


Fig. 4.

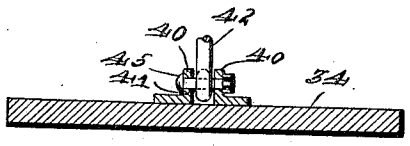


Fig. 5.

Witnesses

R. A. Thomas

Inventor

George S. Spreyer

By Victor J. Evans

Attorney

G. S. SPREYER.

TAIL BOARD SCRAPER.

APPLICATION FILED DEC. 18, 1918.

1,343,097.

Patented June 8, 1920.

2 SHEETS—SHEET 2.

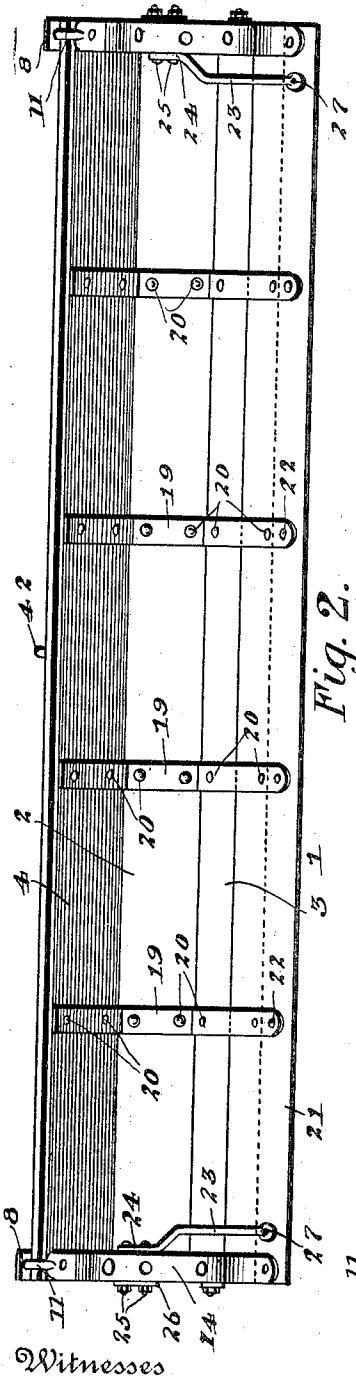


Fig. 2.

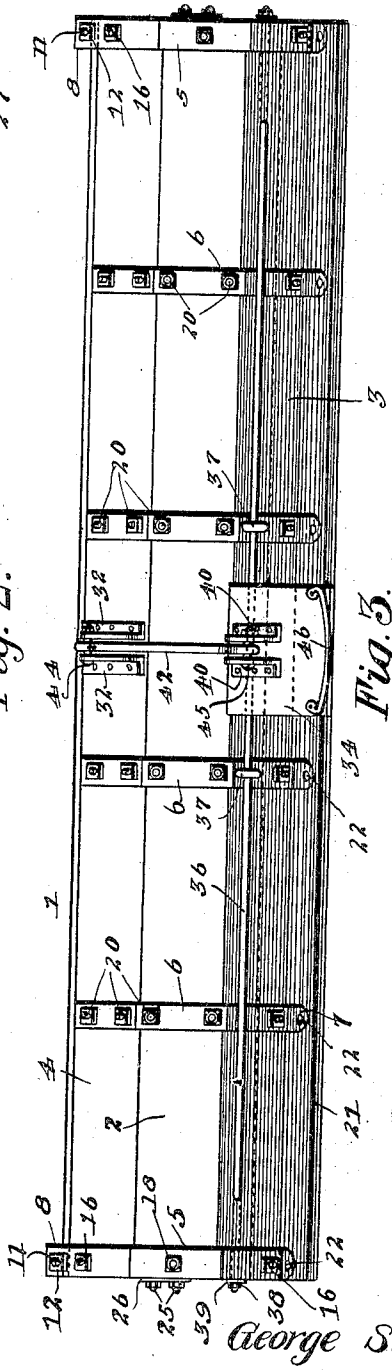


Fig. 3.

Witnesses

R. A. Thomas

Inventor

George S. Spreyer

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

GEORGE SWAIN SPREYER, OF FALLON, NEVADA.

TAIL-BOARD SCRAPER.

1,343,097. Specification of Letters Patent. Patented June 8, 1920.

Application filed December 18, 1918. Serial No. 267,268.

To all whom it may concern:

Be it known that I, GEORGE S. SPREYER, a citizen of the United States, residing at Fallon, in the county of Churchill and State of Nevada, have invented new and useful Improvements in Tail-Board Scrapers, of which the following is a specification.

This invention is an improved tail board scraper for use in leveling earth, scraping roads, and for other like uses, the object of the invention being to provide an improved scraper of this kind which is simple in construction, which can be readily made at small cost, is strong and durable, and which can be adjusted as required.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings:

Figure 1 is an elevation of a tail board scraper constructed and arranged in accordance with my invention.

Fig. 2 is a front elevation of the same.

Fig. 3 is a rear elevation of the same.

Figs. 4 and 5 are detail sectional views.

The body 1 of the scraper is, in practice, made of a centrally arranged board 2 and lower and upper boards 3, 4 which are arranged at an angle to the board 2 so that the body is hollow on its front side. On the rear side of the body are end straps 5 and intermediate straps 6 of iron or steel, the lower ends of which are curved forwardly and extend downwardly below the body as at 7. The end straps extend at their upper ends above the body as at 8. The ends 9 of the body are also preferably made of wood, are shaped at their rear sides to fit the boards 2, 3 and 4 and have their front sides rounded as shown. Inner shoes 10 bear on the front sides or edges of the ends 9 and have their upper ends formed with bolt arms 11 which extend through openings in the extensions 8 of the straps 5 and are provided with clamping nuts 12. The lower ends of the shoes are bent and extended downwardly and forwardly as at 13. Outer shoes 14 bear against the front sides of the shoes 10, conform thereto in shape and are secured, together with the shoes 10, by bolts 15 which extend through bores in the ends 9 and boards 3, 4 and also through openings in the end straps 5 and are provided at their rear ends with clamping nuts 16. The inner shoes 10 and the ends 9 are also secured by bolts 17 which extend therethrough and through the board 2 and the end straps 5 and are provided with nuts 18.

Straps 19 are arranged across the boards 2, 3 and 4 in the front side of the scraper body and together with the intermediate rear strap 6 are secured by bolts 20. The intermediate strap 6 and the front straps 19 have downwardly extended ends and a scraper blade 21 which, in practice, is made of plow steel is secured on the front side of the lower board 3, and between the same and the ends 9 and straps 19, the lower portion of the scraper blade extending between the downward extensions 7, 13 of the straps 5 and the inside shoe 10 and being secured thereto by rivets 22. Draft irons 23 are arranged on the inner sides of the ends 9 and have their upper, offset ends 24 secured to the ends 9 by means of bolts 25, said bolts also passing through plates 26 on the outer sides of the ends 9. The lower ends of the draft irons are bent downwardly and rearwardly and bear against the scraper blade and are secured thereto by rivets 27. Draft irons are each provided with a series of adjusting openings 28 which are arranged at different distances from the lower ends thereto. Draft chains 29 are provided with clevices 30 which clevices may be attached to the draft irons by bolts 31. The said bolts may be inserted in any of the adjusting openings 28 so that the draft chains may be attached to the draft irons at any desired point according to the desired adjustment of the body of the scraper and the angle at which it is desired that the same shall work.

On the rear side of the scraper body at the center and upper portion thereof are a pair of vertically arranged angle irons 32 which are appropriately spaced apart with adjusting openings 33. The tail board 34 which trails behind the body of the scraper is provided at its front end, on its under side, with a pair of hinge plates 35. A truss rod 36 passes through the openings in the hinge plates and also through the eyes of eyebolts 37, the end portions of the truss rod extending through forwardly inclined bores in the end portions of the lower board of the scraper body and the ends 9 and being provided at its ends with

nuts 38 and washers 39. On the upper side of the tail board are a pair of angle irons 40 which are arranged longitudinally and in spaced relation and are provided with adjusting openings 41. A brace rod 42 has its ends turned downwardly and provided with eyes or openings and arranged in the spaces between the angle irons 32, 40 and said angle iron is secured at any desired adjustment by a bolt 44 which may pass through any of the openings 33 and a bolt 45 which may pass through any of the openings 41. Hence, the angle between the body of the scraper and the tail board may vary and the tail board and body of the scraper may be secured at any desired angle. A handle 46 is provided at the rear end of the tail board, on its upper side, and a steel shoe 47 is provided on the lower side, the handle and steel shoe being secured by suitable bolts.

It is thought the operation of the scraper is obvious.

While I have herein shown and described a preferred embodiment of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of my invention and within the scope of the appended claim.

Having thus described my invention, I claim:

In a scraper of the character described, a body comprising a back, said back being curved, end members projecting from the front side of the back and having rounded edges, a vertically disposed blade arranged against the front side of the back and projecting below the lower edge thereof, straps secured to the rear side of the back and projecting above and below the edges thereof, said blade being arranged between the back and said end members, shoes covering the rounded front edges of the ends and having their upper ends secured to the upper adjacent ends of said straps, the lower ends of said straps bearing against one side of the blade, the corresponding ends of the shoes bearing against the opposite side of the blade and a common fastening means for securing the adjacent ends of the strap and shoes to the blade as described.

In testimony whereof I affix my signature.

GEORGE SWAIN SPREYER.