No Printed Specification Available

6392X

S. Davis, Jr.,

Earth Scraper,

Patented Feb. 22, 1831.

Fig 1

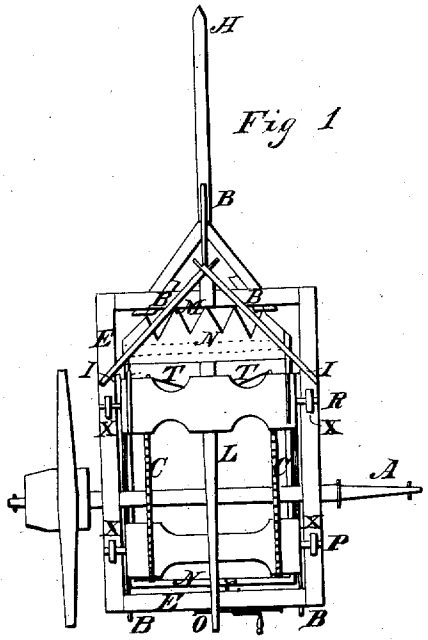


Fig. 2.

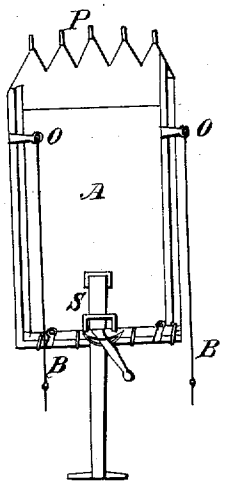


Fig. 3.

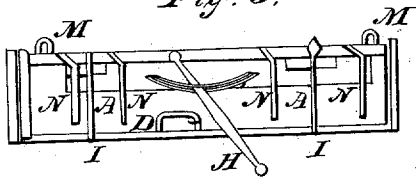


Fig. 4.



Fig. 5.

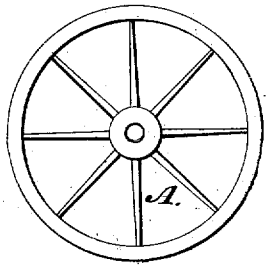


Fig. 6.

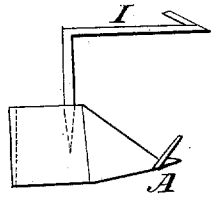


Fig. 7.

Inventor:

Shadrach Davis

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

6392X Feb 22, 1831 157

Shadrach Davis Junr of Dartmouth Mass

Letters Patent

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Shadrach Davis Junr himself of his improvement in the machine for removing stones &c.

To all to whom these presents shall come, Be it known that I Shadrach Davis Junr of Dartmouth in the County of Bristol and State of Massachusetts have invented a new and useful improvement in a machine for removing earth, stones &c and that the following is a full and exact description of the construction and operation of the said machine containing my invention or improvement and the manner of using the same. Said machine may be operated by Oxen, horses or steam power. Drawing Fig 1st A is an axletree. R R are wheels or rollers. XXXX are caps over the mortices of said wheels, and secured with bolts thro the frame. H H, is the frame and rollers lay in. M is a post with a notch on the top. B B are braces securing the post and frame. H, is the shaft or tongue to the carriage, B B are chains fastened one end in the frame and the other end to the straps on the scraper as may be seen at O O in Fig 2nd with a joint in them near the frame. N is the scraper. I I are chains one end fastened to the roller and the other ends secured to the scraper at O O. C C are chains fastened to the back board of the said scraper, and pass over roller P and fasten to Roller R on the under side. T T are chains fastened to R and the scraper respectively. L is a lever in R. O is a wheel with a rope secured to it, and to the lever with a crook and socket and pole. Fig 3d A is the body of the scraper or drag. P are points or shears with a cutter in them. O O are straps. B B are braces & straps. S is a socket. Fig 3d A is a board in the back part of the scraper to prevent the load from discharging. B is a bolt headed in part on the upper edge. N N N N are straps, fastened to the board and secure the bolt to the side of the board. N N are staples fastened to the board to receive the chains C C in Fig 1st. O is a rope fastened to the bolt. L is a lever one end secured

Drawing

6392X

to the edge of the board and fixes there the scraper. H is a spring fastened to the bottom of the scraper, and plays between the board and the bolt and draws the bolt across the barrel. D is a socket to receive the handspike to assist in loading. Fig 4th is a handspike. Fig 5th is a wheel. Fig 6th is a spring fastened to the after part of the scraper fastening the back board of the scraper and the scraper across the barrel of the bolt together. Fig 7th is a point or share with a cutting rib.

The above machine is calculated to move earth, stone &c. and may be used in the following form. The power applied to the tongue, the bow thrown forward into the notch will set the scraper to the ground then by raising the after part of the after part of the scraper will direct the points of said scraper into the ground. The carriage moving ahead will carry them under the earth or intended load the bow brought back will raise the load. Now by unscrewing the bolt in the back board from the springs that are attached to the bottom of the scraper will fall the back part of said scraper and discharge the load. for moving heavy stone may be hoisted and discharged in the same manner.

The above named points or shares, I contemplate using on scrapers and many on wheels for moving short distances.

The improvement I claim is not the whole machine described, but I claim the points or shares with the cutting rib in the fore part of them & the application of said scraper to wheels, and form of hanging it together or with applying said points to scrapers drawn without wheels.

Witnesses,
Marshal P. Simmons
Geo. Cummings

Whitbeach Davis Junr.

(Granted Feb. 22. 1831.)