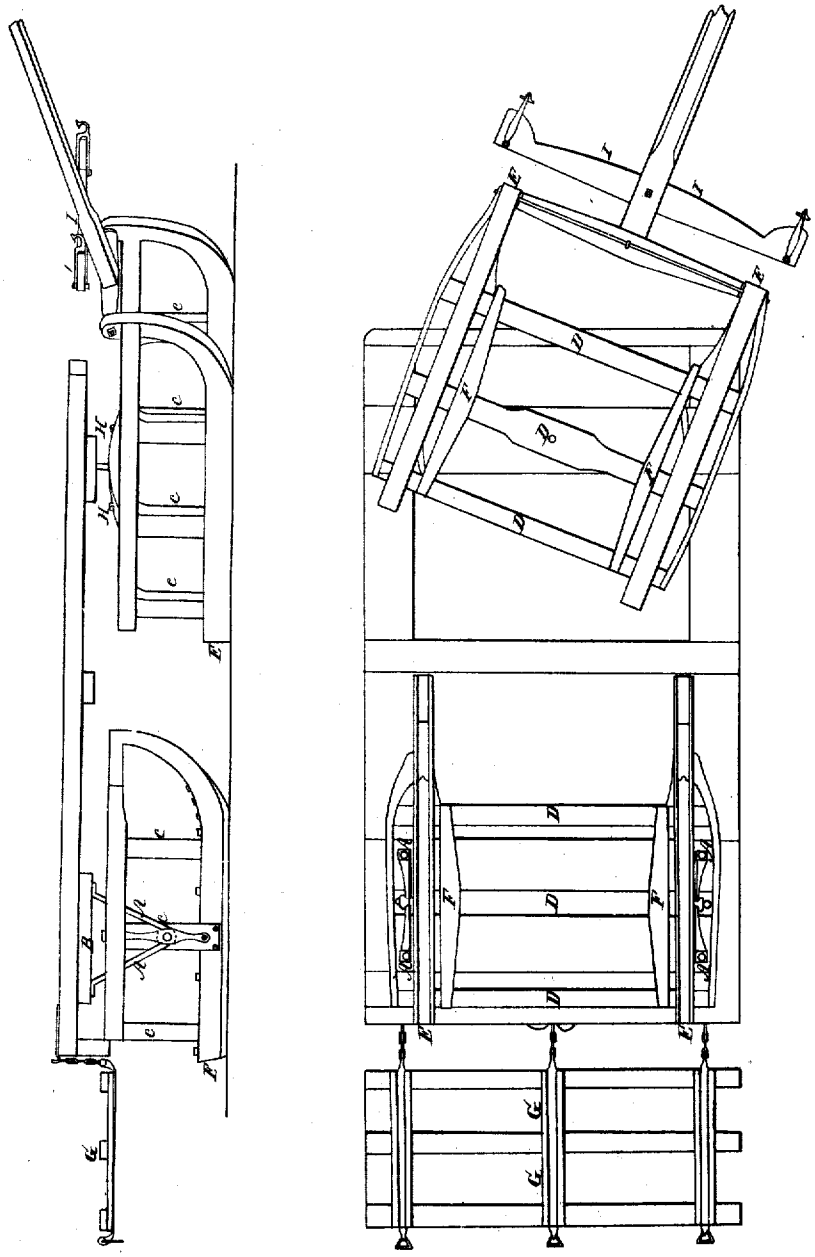
8305X

B. Markham.

Sleigh.

Patented Jul. 10. 1834.



8305 X

July 10. 1884

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B. Bela Markham

Letters Patent

The Schedule referred to in these Letters Patent and forming part of the same containing a description in the words of the said Bela Markham himself of his improvement in the "Traverse Sleigh"

To all to whom these presents shall come. Be it known that I Bela Markham of Burlington in the County of Chittenden and State of Vermont have invented a new and useful improvement in the Traverse Sleigh and that the following is a full and exact description of the construction and operation of the said machine as invented or improved by me viz A Bale forming an angle of forty five degrees the ends of which are bent outwards horizontally and bolted to a plank eighteen inches wide which passes across the sleigh under the bottom. the angle of the bale is bolted to the outside of the middle knee of the hind runners from the plank to the pivot at the angle is seven inches the bolt passes through a strap fastened upon the outside and extending around the front and rear side of the knee and fastened by two bolts and also passes through a brace passing on side of the Bale bolted to the end of the beam at the top and to the knee at the bottom. By which the fore and afterends of the runners play up and down and accommodate themselves to the make of the roads. The bases are put upon the under side of the beams and bolted through them by the side of the knee to strengthen the sleigh. The rack is fastened to the platform of the sleigh by three chains one on each side and one in the centre attached to three hooks on the platform. which lets the rack down as low as the under part of the beams and prevents the sleigh from upsetting. A roller one and one half inch in diameter is fastened on the upper side of the middle beam over the knee at each end and on the forward runners which play upon circular irons on the platform to prevent binding. when turning around. A double whiffle

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fletree is bolted to the tongue and fastened at each end by a stay from the roller. the hooks to which the whiffletrees are attached pass by two straps across the double whiffletree to the back part and fastened by a bolt and play in a circular form towards the tongue and carries the whiffletrees inward seven inches. when the tugs or ends of the whiffletrees come in contact with any obstacle. The shoes for each runner are in two pieces. the longest piece is two feet seven inches long and one and three fourths of an inch wide and one and one fourth of an inch thick. the shorter piece is eight inches long and of the same width and straight on the inner part and the outer side is curved and tapered upwards to the thickness of three fourths of an inch and is grooved on to the larger part at the rake of the runner and rises one and one half an inch in eight inches which prevents the shoes from breaking the bolts which fasten the shoes to the runners are counter sunk in the shoe from the hinder part leaving the fore part perpendicular and the bolts of equal thickness. All the bolts have a screw at the end and fastened with an iron nut. The bale chains to the rack; strap hooks to the evener. straps, braces, bolts and nuts, are made of good strap iron and the shoes and rollers are to be made of cast iron. What I claim as new (and of my own invention and for which I claim an exclusive right of making constructing using and vending to others to be used are the application of the Bale. The Raves under the beams. the chain Rack Rollers strap hooks to the evener and the joint shoes and bolts to the ordinary traverse sleigh, which carries the load low and consequently draws easier and accommodates itself to the make of the road shunning obstacles and is less liable to upset than the ordinary traverse sleigh. Burlington April 28th 1834.

Witnesses

Hyman Lenn

Hyman Cummings

Bela Markham

744 nos

(Patented July 10. 1834)