No. 665,184.

Patented Jan. 1, 1901.

M. CREIGHTON.

SLEIGH.

(Application filed Mar. 24, 1900.)

(No Model.)

Fig. 1.

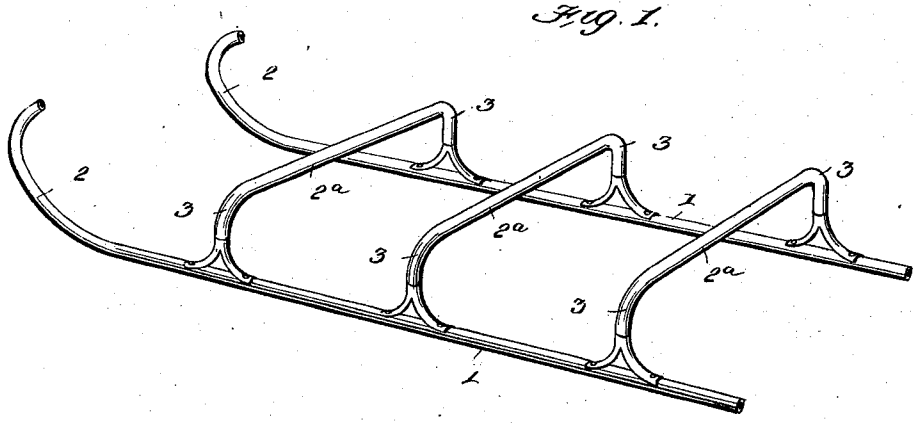


Fig. 2.

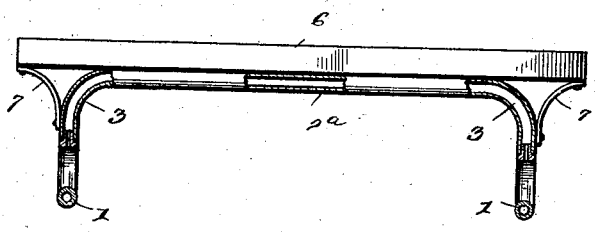


Fig. 3

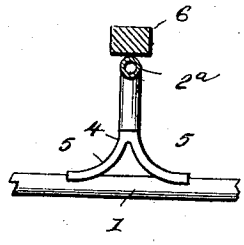
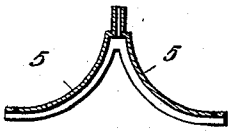


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

MELVIN CREIGHTON, OF RENSSELAER FALLS, NEW YORK.

SLEIGH.

SPECIFICATION forming part of Letters Patent No. 665,184, dated January 1, 1901.

Application filed March 24, 1900. Serial No. 10,067. (No model.)

To all whom it may concern:

Be it known that I, MELVIN CREIGHTON, a citizen of the United States, residing at Rensselaer Falls, in the county of St. Lawrence and State of New York, have invented a new and useful Improvement in Sleighs, of which the following is a specification.

This invention relates to improvements in sleighs.

The object of the invention is to provide an improved form of sleigh which is extremely simple in its construction and yet at the same time possesses advantages in point of strength and durability; and, furthermore, the invention contemplates in the construction of a sleigh an improved form of supporting-beam and knee adapted for ready application to and removal from the runners.

With this general object in view and others which will appear as the nature of the improvements is better understood the invention consists, substantially, in the novel construction, combination, and arrangement of parts, as will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a sleigh constructed in accordance with the present invention. Fig. 2 is a transverse sectional view thereof, the section being taken through one of the supporting-beams. Fig. 3 is a transverse sectional view of one of the supporting-beams. Fig. 4 is a similar view of one of the legs of the knees.

Referring to the drawings, the numeral 1 designates the runners of the herein-described sleigh, which runners are tubular in form, said runners being curved upwardly at their forward ends, as shown at 2.

Arranged upon the runners 1 and extending transversely thereof is a series of supporting-beams 2^a, said beams being also tubular in form, and each of said beams has its ends bent downwardly, as at 3, for connection to the knee 4. The knees 4 each comprise a pair of downwardly-extending divergent legs 5, which legs are substantially semicircular in cross-section, and the upper ends of said legs fit snugly in the openings of the downwardly-bent ends 3 and are suitably secured therein—as, for instance, by welding. By reason of the legs 5 diverging it will be seen that the lower ends thereof provide a comparatively large support for each of the beams 2, and said ends are secured to the runners 1 in any desired manner, preferably by rivets. By reason of the ends of the beams 2 being bent downwardly it will be seen that an arched construction is imparted thereto, and hence the strength incident to such arched arrangement is imparted to said beams in order that the latter may firmly support the load and resist the strain thereof.

If desired, an auxiliary beam 6, of wood, may be arranged upon each of the beams 2, and in the event that such auxiliary beams are used the same are secured in position upon the beams 2 through the medium of fastening-clips 7.

From the foregoing description it will be seen that the herein-described invention provides a sleigh of extremely light weight; but at the same time said sleigh possesses advantages in point of simplicity, durability, and cheapness, and by reason of the construction of the supporting-beams, the same are capable of resisting great strain incident to heavy loading. I lay great stress upon the formation of the supporting-beams inasmuch as the arched construction thereof, as before stated, together with the fact that the beams are made hollow, imparts great strength to the latter to effectually resist the load.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sleigh, a series of tubular runners, tubular supporting-beams arranged thereon and having their ends bent downwardly, knees interposed between the supporting-beams and the runners, and each comprising a pair of downwardly-diverging legs, being shouldered, and the upper ends of said legs fitting within the downwardly-extending ends of the supporting-beams and being suitably secured therein.

2. In a sleigh, a series of tubular runners, tubular supporting-beams arranged thereon and having their ends bent downwardly, and knees interposed between said beams and the runners and each comprising a pair of downwardly-diverging legs, each of said legs being substantially semicircular in cross-section, the upper ends of said legs fitting within the downwardly-bent ends of the supporting-beams and suitably secured therein.

MELVIN CREIGHTON.

Witnesses:
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