G. W. BENNETT.
Hub for Sleighs.

No. 211,127. Patented Jan. 7, 1879.

Fig. 1.

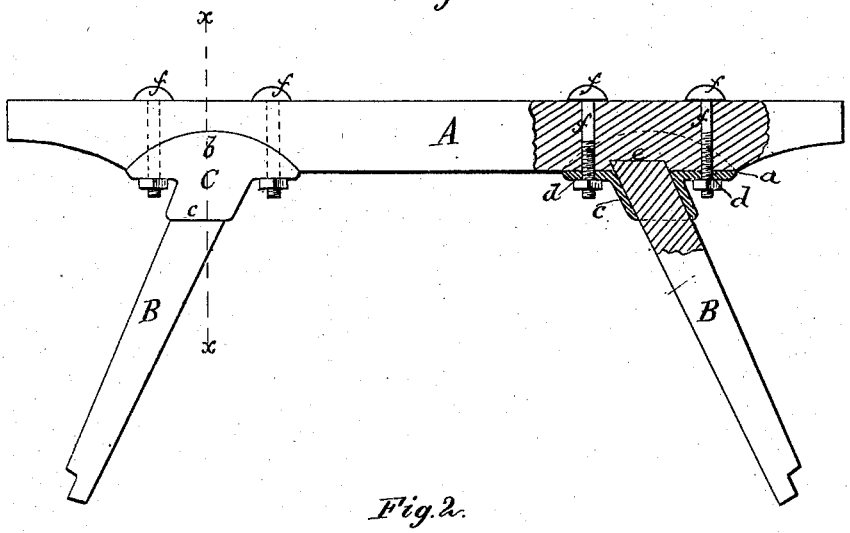


Fig. 2.

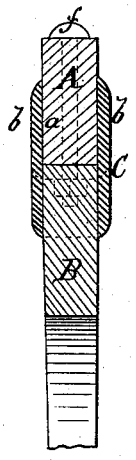
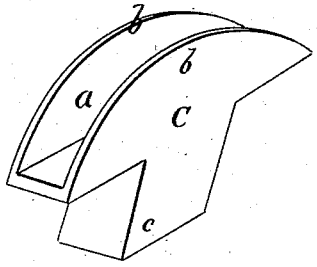


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE W. BENNETT, OF GARDEN PRAIRIE, ILLINOIS.

IMPROVEMENT IN HUBS FOR SLEIGHS.

Specification forming part of Letters Patent No. **211,127**, dated January 7, 1879; application filed November 19, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. BENNETT, of Garden Prairie, in the county of Boone and State of Illinois, have invented a new and useful Improvement in Hubs for Sleighs, of which the following is a specification:

This invention relates to an improvement in connecting the knees of sleighs with the beam on which the body is placed; and it consists of a metal hub, provided with a groove which receives the beam, and an angular socket, through which the upper end of the knee is passed, the several parts being connected together, as hereinafter described.

The object of the invention is to give greater strength to the connection of the knee and beam, and also to facilitate the making thereof.

In the accompanying drawing, Figure 1 is a side elevation, partly in section, of the beam and knees of a sleigh connected together by my improved hub. Fig. 2 is a section through line *x x*, Fig. 1; and Fig. 3 is a perspective view of the hub.

Similar letters of reference indicate corresponding parts.

Referring to the drawing, the beam on which the body of the sleigh is placed is designated by the letter A, and the knees are indicated by the letters B B. The knees and the beam are made in the usual way, and when joined together in the proper manner they form the frame-work to which the runners and body are fixed.

The hubs are represented by the letters C. Each hub is a casting of metal, the upper part of which is furnished with a groove or channel, *a*, the sides of which are the segmental portions *b b*. From this groove is cast the socket-piece *c* at an acute angle to the channel or groove. In the channel or groove is placed the beam of the sleigh, while the socket *c* receives the knee. The bottom of the channel is provided with bolt-holes *d d*.

My invention is applied in the following way: The knees being wedge-shaped, the smaller end is inserted in the socket from the channel *a* until the butt-end is pressed into the socket as far as it will go. Both knees having been inserted in their respective sockets, the beam A is then laid across within the groove of each of the hubs, so that the latter will be equally distant from the ends of the beam, and the butt-ends of the knees will enter rabbets *e* in the beam, and bolt-holes through the beam will coincide with the bolt-holes *d* in the bottom of the channel or groove. Bolts *f f* are then entered through the beam and hubs, and secured by screw-nuts, thus fastening the beam and hubs firmly together, and preventing separation of the parts or any movement when they are properly fitted. The hub is made in a single piece by casting, so that no fitting of it is required, as the wood of the beam and knees must be made to conform to it, and this is a very easy matter, since it is cast in the exact size and shape required. It makes the connection of the knees and beams much more simple and economical than any method now in vogue, besides supplying a stronger joint than can be attained by mortising and tenoning.

Entering the butt of the knee into a rabbet in the beam is not essential to the completeness of my invention, as a good strong joint, a trifle more easily made, can be obtained by simply letting the butt rest against the under side of the beam.

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

As an improvement in sleighs, the hub C, provided with the channel or groove *a* and socket *c*, in combination with the beam A and knee B, to form the connection between the beam and knees of a sleigh, substantially as described.

GEORGE WHEELER BENNETT.

Witnesses:

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A. C. FASSETT.