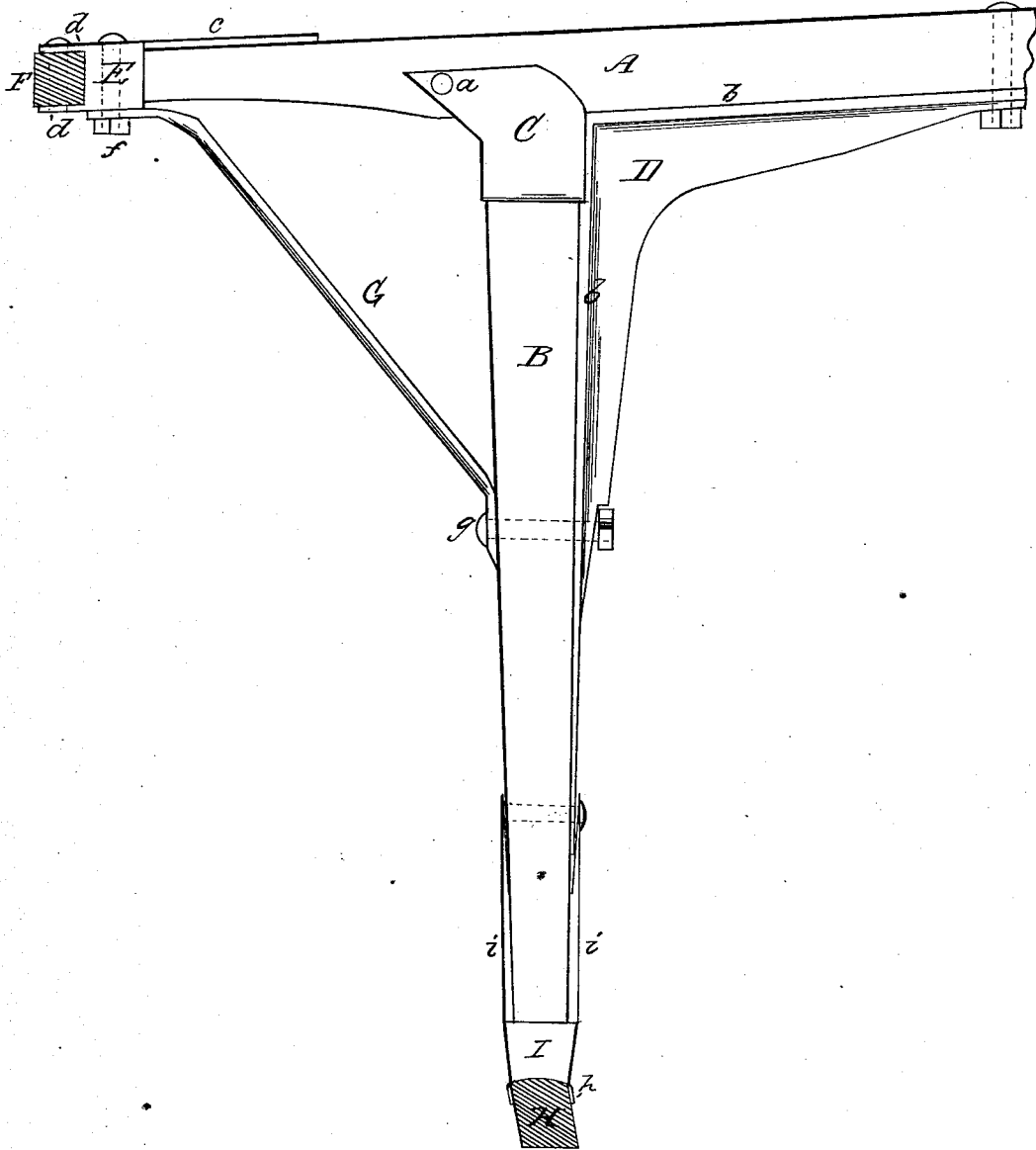


M. GLASSBROOK.
Sleigh-Knee.

No. 162,469.

Patented April 27, 1875.



WITNESSES

N. O. D. Curand
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By

INVENTOR

Myron Glassbrook,
per Chas. H. Fowler
Attorney

UNITED STATES PATENT OFFICE.

MYRON GLASSBROOK, OF BATCHELLERVILLE, NEW YORK.

IMPROVEMENT IN SLEIGH-KNEES.

Specification forming part of Letters Patent No. **162,469**, dated April 27, 1875; application filed March 27, 1875.

To all whom it may concern:

Be it known that I, MYRON GLASSBROOK, of Batchellerville, in the county of Saratoga and State of New York, have invented a new and valuable Improvement in Knee-Joint for Sleighs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

The drawing is a representation of a perspective view of my invention.

This invention has relation to knee-joints for sleighs; and my invention consists of a new and improved method of attaching the knee to the cutter-beam, whereby the necessity of connecting them by mortise and tenon is entirely avoided.

In the drawings, A is designed to represent the cutter-beam, and B the standard, the two being connected by the socket C, through which a suitable bolt, *a*, passes. Projecting from the socket C, and cast with it, are two narrow fastening-strips, *b b*, bolted at their ends to the knee and beam, and have a strengthening-web, D. E represents a socket, into which the end of the beam A is inserted, and has a fastening-plate, *c*, and lips *d d*, the lat-

ter receiving the fender F, and firmly secured by a suitable bolt, *e*. A brace-rod, G, connects the beam and standard, and is fastened thereto by suitable bolts, *f g*. H represents the cutter-runner, upon the top of which is bolted a semicircular plate, *h*, provided with a socket, I, and fastening-plates *i i*, by which the lower end of the knee B enters, thus entirely avoiding the necessity of the mortise and tenon, which greatly weakens the joint.

It will be seen that by the manner hereinbefore described of connecting the cutter-beam and knee a much lighter, stronger, and more durable knee-joint is obtained, and is as well adapted to heavy sleighs as to light cutters.

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

In a sleigh - knee, the combination of the fastening-strips *b b*, having the strengthening-web D and socket C, and the brace-rod G and socket E, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MYRON GLASSBROOK.

Witnesses:

H. RANSOM COLSEN,
E. H. HAYDEN.