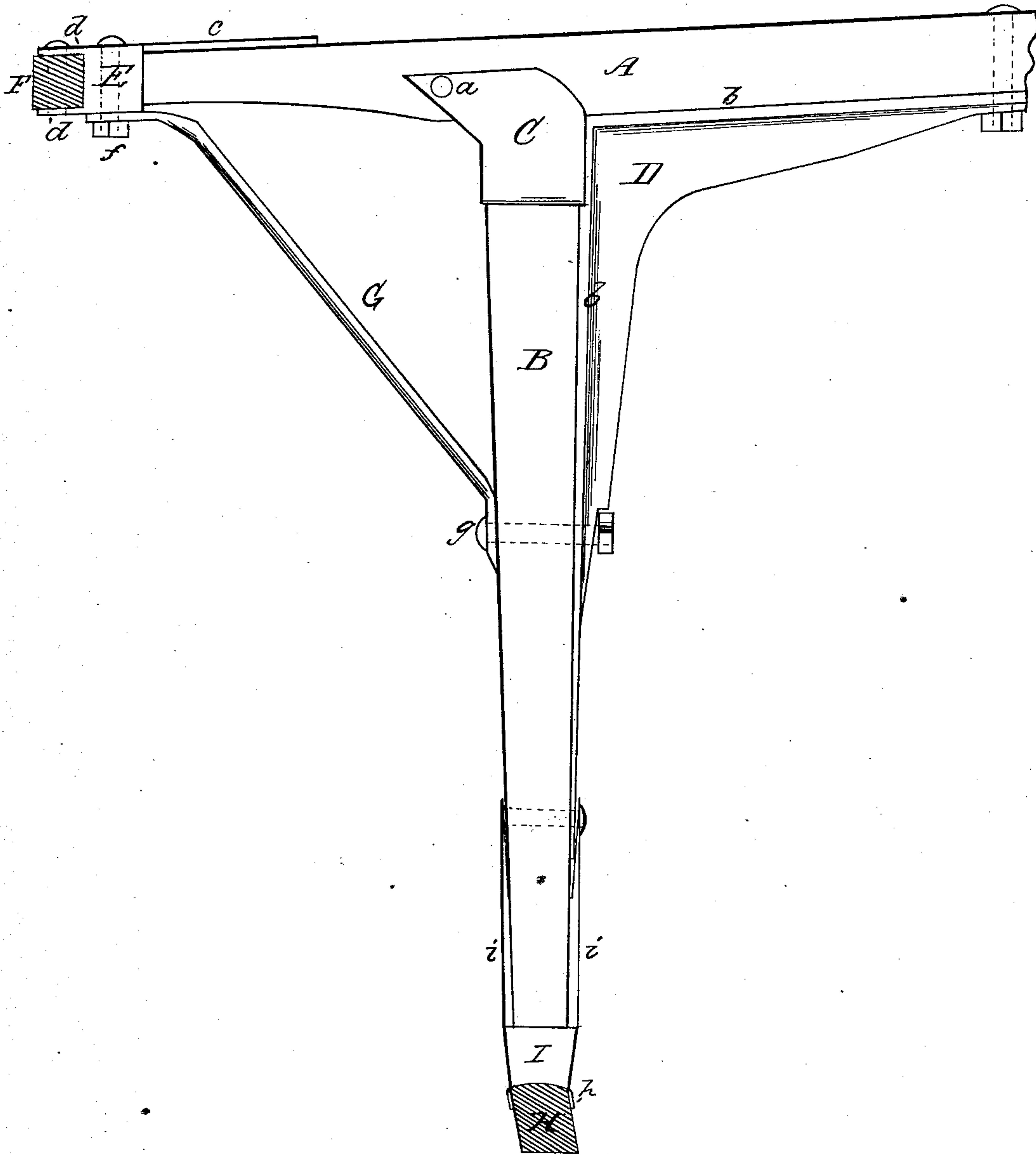


M. GLASSBROOK.
Sleigh-Knee.

No. 162,469.

Patented April 27, 1875.



WITNESSES

N. O. D. Curran
Stas. E. Oliphant

By

INVENTOR

Myron Glassbrook,
per Cha. 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.