

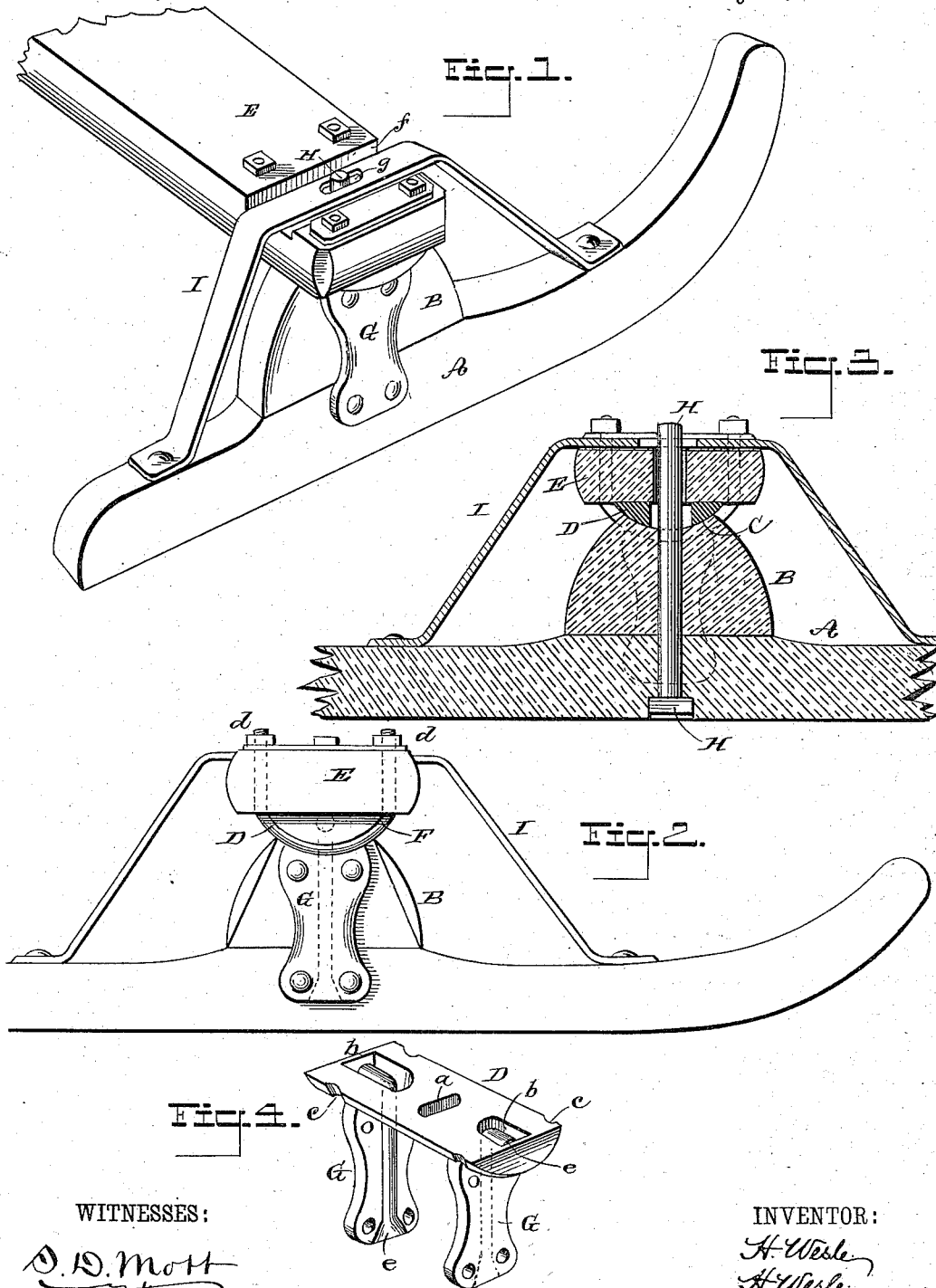
(No Model.)

HERMAN WESLE & HENRY WESLE.

SLEIGH KNEE.

No. 382,397.

Patented May 8, 1888.



WITNESSES:

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HERMAN WESLE AND HENRY WESLE, OF MEDFORD, WISCONSIN.

SLEIGH-KNEE.

SPECIFICATION forming part of Letters Patent No. 382,397, dated May 8, 1888.

Application filed November 25, 1887. Serial No. 256,118. (No model.)

To all whom it may concern:

Be it known that we, HERMAN WESLE and HENRY WESLE, both of Medford, in the county of Taylor and State of Wisconsin, have invented new and useful Improvements in Sleigh-Knees, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a perspective view of part of a sleigh embodying our invention. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal section taken lengthwise of the runner, and Fig. 4 is a detail perspective view of the joint of the sleigh-knee.

Similar letters of reference indicate corresponding parts in all the views.

The object of our invention is to provide a sleigh-knee which will admit of a small amount of motion in the runner to allow the runner to conform to the inequalities of the surface over which it passes.

Our invention consists in the combination, with the runner and the beam, of a cylindrically-convex casting secured to the beam, bearing-plates secured to opposite sides of the runner, and hooks inserted in recesses in the bearing-plates and received in recesses in the convex plate, all as hereinafter more fully described.

To the runner A is secured a standard, B, having a concave upper surface, C, adapted to receive the cylindrically-convex plate D, secured to the under surface of the beam E. The plate D is provided with a central transverse slot, *a*, with recesses *b* near opposite ends, with perforations extending through the plate at the inner ends of the recesses, and with semi-circular grooves *c* near opposite ends for receiving the fastening-clips F, by which the plate D is secured to the beam E, the said fastening-clips extending upwardly through the beam and receiving nuts *d*.

To the sides of the runner A and of the standard B are secured plates G, which are recessed on their inner faces for receiving the

shanks of the hooks *e*, the said hooks extending through the plate D and into the recesses *b*. To retain the hooks *e* in their places in the plates G the recesses in the plates are flared at their lower ends and beveled heads are formed upon the shanks of the hooks *e*, which fit the flared portions of the recesses.

A bolt, H, extends upwardly through the runner and through the standard B, and is passed through the slot *a* of the plate D and through a slot in the beam E. A transverse channel, *f*, is formed in the beam E above the standard B, for receiving a flat brace, I, which is attached to the runner A on opposite sides of the standard B, and is provided with a central slot, *g*, for receiving the upper end of the bolt H. The bottom of the channel *f* is made convex to allow of the necessary amount of motion in the runner A and brace I. As the runner passes over an uneven surface, the standard B and the plates G swing on the convex surface of the plate D.

The recesses *b* are closed at their outer ends to prevent the entrance of snow or ice.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. As an improved article of manufacture, an attachment for sleigh-knees, formed of the convex plate D, having recesses *b* and a central aperture, *a*, the recessed plates G, fitted to the convex surface of the plate D, and the hooks *e*, received in the recesses, substantially as specified.

2. In a sleigh-knee, the combination of the runner A, the standard B, the convex plate D, provided with the recesses *b* and central slot, *a*, the recessed plates G, the hooks *e*, the bolt H, and the brace I, substantially as specified.

HERMAN WESLE.
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Witnesses:

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THEO CARSTENS.