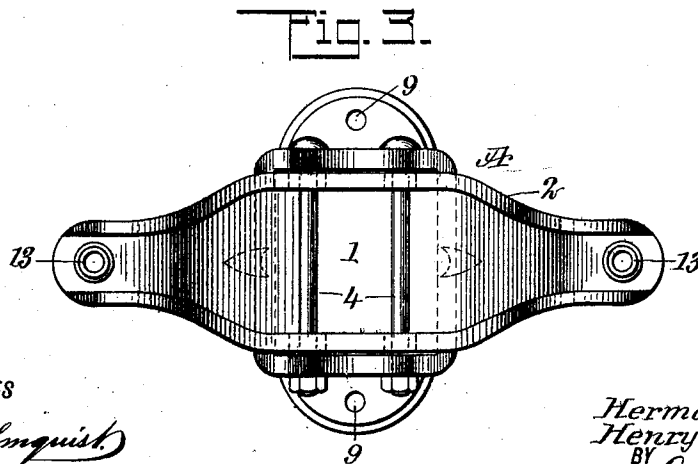
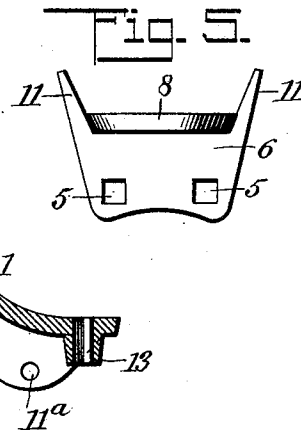
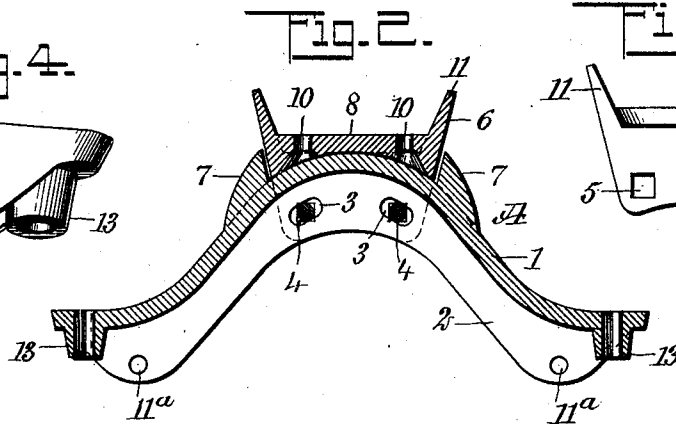
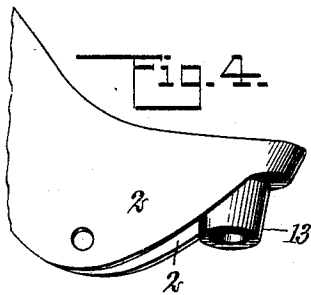
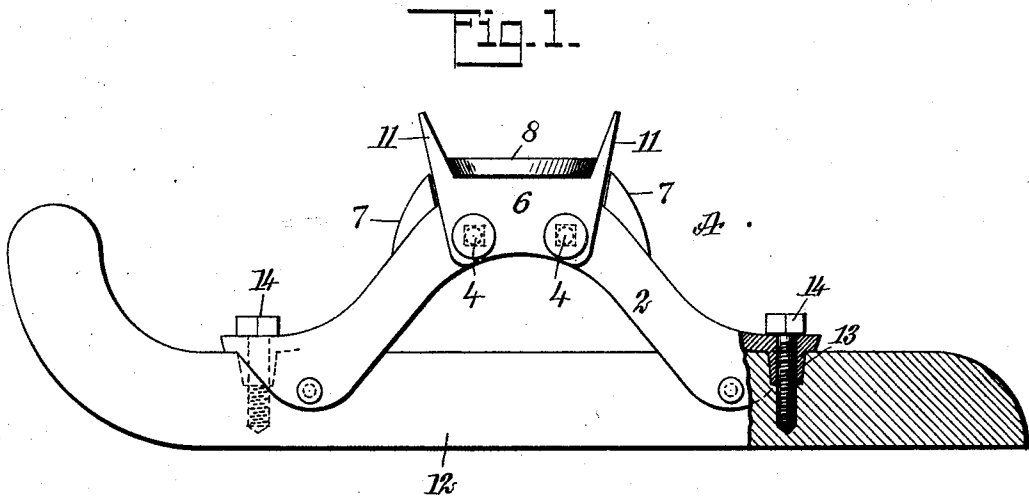


HERMAN WESLE & HENRY WESLE.
SLEIGH KNEE.

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933,510.

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HERMAN WESLE AND HENRY WESLE, OF MEDFORD, WISCONSIN.

SLEIGH-KNEE.

933,510.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed February 25, 1909. Serial No. 479,905.

To all whom it may concern:

Be it known that we, HERMAN WESLE and HENRY WESLE, both citizens of the United States, and residents of Medford, in the county of Taylor and State of Wisconsin, have invented a new and Improved Sleigh-Knee, of which the following is a full, clear, and exact description.

This invention relates to sleigh knees, and is an improvement on the construction shown in Letters Patent No. 572,847, granted to us December 8, 1896.

The object of the invention is to provide a strong and more durable means for movably attaching the clamp to the sleigh knee proper.

Another object is to improve the means of fastening the sleigh knee to the runner.

These and other objects will be more fully described hereinafter and more particularly set forth in the claims.

Reference may be had to the accompanying drawings forming a part of this specification, in which like reference characters denote corresponding parts in all the views, and in which—

Figure 1 is a side elevation, partly in section, to show the improved means of attaching the sleigh knee to the runner; Fig. 2 is a vertical longitudinal section through the knee and clamp; Fig. 3 is a bottom plan view of the sleigh knee; Fig. 4 is a perspective of the fastening lug on the end of the knee; and Fig. 5 is a side elevation of the clamp removed from the knee.

Referring more particularly to the separate parts of the device, A is the arched sleigh knee proper. This consists of a body portion 1, having depending side flanges 2. In the flanges 2 on each side of the center of the arch of the knee are longitudinal slots 3 which slope toward each other along converging lines. Passing through these slots 3 are bolts 4, which pass through openings 5 in the depending side flanges of the clamps 6. The clamps are thus strongly fastened to the sleigh knee with freedom for pivotal sliding motion, which is limited by lugs 7 on the body portion 1. The clamp 6 further consists of a main portion 8, having fastening openings 9 and countersunk openings 10, which, together with upwardly-extending flanges 11, are adapted to fasten said clamps to the body of a sleigh. Through openings 11^a in the side flanges 2, bolts or

any other suitable means fasten the sleigh knee to the runner 12. Additional means for securing the sleigh knee to the runner is afforded by perforated conical lugs 13, which are inset in the runner and held thereto by screw-bolts 14. This lug and screw means of fastening prevents any possible end motion, and also prevents the ends from being canted up by any excessive load.

By sloping the slots 3 toward each other, they form a guide for the bolts 4, which is substantially concentric with the curved upper and lower surfaces of the arched body portion 1 and the clamp 6 respectively, so that the clamp 6 is permitted to have an arcuate rocking motion relative to the body portion.

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

1. In a device of the class described, the combination with a clamp having a curved lower surface, of a body portion having a curved upper surface coinciding with the curved lower surface on said clamp, and also having a plurality of converging slots forming a guide substantially concentric with said curved surfaces, and means engaging said slots adapted to rockingly secure said clamp to said body portion.

2. In a device of the class described, the combination with a clamp having a concave curved lower surface, of a body portion having a convex curved upper surface coinciding with the lower surface on said clamp, a runner for said body portion, downwardly-extending flanges, having converging slots substantially concentric with said curved portions on said clamp and said body portion and adapted to overlap the sides of said runner, means for engaging said slot in said body portion, for securing said clamp to said body portion, perforated conical lugs on said body portion adapted to engage said runner, and means inserted in said lug adapted to secure said body portion to said runner.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

HERMAN WESLE.
HENRY WESLE.

Witnesses:

W. W. STONE,
J. H. BELL.