

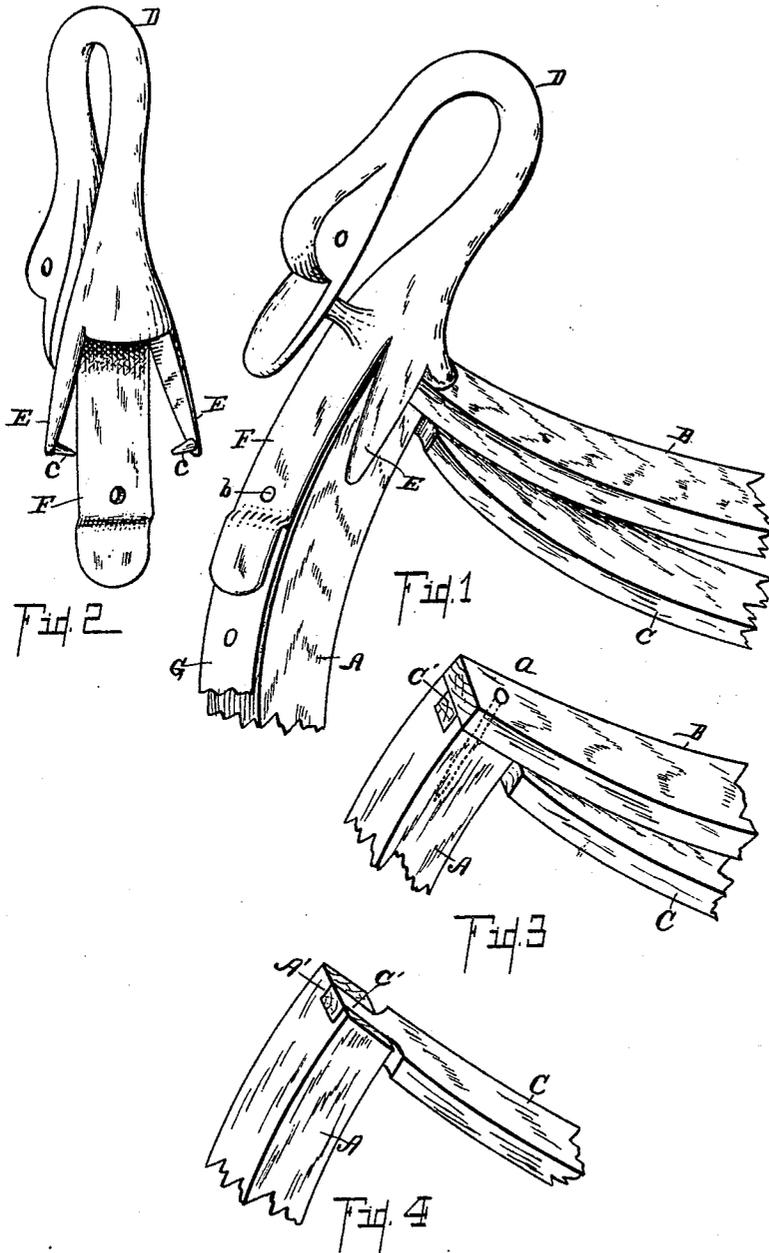
(No Model.)

2 Sheets—Sheet 1.

H. P. KAUFFER & W. E. KIDDER.
HAND SLED.

No. 583,258.

Patented May 25, 1897.



Witnesses:
Walter S. Wood
Vern E. Chappell

Inventors
H. P. Kauffer & William E. Kidder
 By *Fred L. Chappell*
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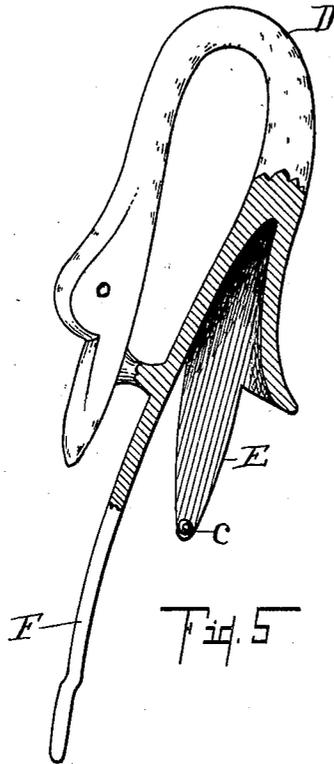
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By Fred L. Chappell

Attorney.

UNITED STATES PATENT OFFICE.

HALE P. KAUFFER AND WILLIAM E. KIDDER, OF KALAMAZOO, MICHIGAN,
ASSIGNORS TO THE KALAMAZOO SLED COMPANY, OF SAME PLACE.

HAND-SLED.

SPECIFICATION forming part of Letters Patent No. 583,258, dated May 25, 1897.

Application filed January 13, 1896. Serial No. 575,279. (No model.)

To all whom it may concern:

Be it known that we, HALE P. KAUFFER and WILLIAM E. KIDDER, citizens of the United States, residing in the city of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a certain new and useful Improvement in Hand-Sleds, of which the following is a specification.

Our invention relates to improvements in hand-sleds, and more particularly to the nose of the hand-sled and the gooseneck attached thereto and the way in which these parts are joined together.

The objects of this invention are, first, to provide in a hand-sled a gooseneck which shall not only be ornamental, but shall serve as a convenient means of joining the runner, rave, and fender together at that point and greatly increase the strength of the same; second, to provide an improved construction of the runner, rave, and fender, and an improved means of joining the same that shall increase the strength at this point; third, to provide an improved means of joining a gooseneck to a sled; fourth, to provide a construction of a sled-nose and gooseneck which shall require the use of a very few nails or screws and at the same time result in a very strong device which will not come loose or rattle; fifth, to provide a construction of a gooseneck that can be easily and quickly applied to the sled, and other objects appearing in the detailed description. We accomplish these objects of our invention by the means described in the following specification and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the nose of a sled with the gooseneck attached. Fig. 2 is a rear perspective view of the gooseneck removed from the sled. Fig. 3 is a perspective view of the nose of the sled with the gooseneck detached. Fig. 4 is a perspective view of the nose of the sled with the rave removed. Fig. 5 is an elevation view of the neck, partly in section.

Referring to the lettered parts of the drawings, A is the runner, B is the rave, C is the fender, D is the gooseneck, and G the shoe. A notch A' is mortised into the top of the runner, and the forward end C' of the fender C

is fitted thereto. The rave B extends over the top of the same, and a nail or screw *a* is inserted through the front end of the rave and fender into the runner and holds all of the parts in place. The gooseneck is cut away or hollow on its under side and forms a cap that fits exactly over the nose of the sled thus formed. (See Fig. 5, in which the hollow itself is extended beyond the point of the runner farther than is really necessary.) A strap or band F extends down the front of the runner from the gooseneck and laps over the front end of the shoe G. Little wing-pieces E E of the gooseneck extend from above the rave B down to each side of the runner and bear little sharp-pointed lugs *c c*.

When the gooseneck is put in place, it is secured to the runner by a small nail *b*, which is inserted through the strap portion F. The wings E E are pressed together, and the pointed lugs *c c* engage the runner to each side and hold the whole securely. The lugs *c c* are not indispensable. The gooseneck is preferably made of malleable iron, so that the wings E can be easily bent, as indicated.

Having thus described our improved hand-sled, we desire to state that the construction shown, even without the gooseneck, is very efficient and superior. We also desire to state that the gooseneck in itself could be used in other styles of hand-sleds made with or without fenders, and the particular formation of the attaching part of the gooseneck might be employed, dispensing with the gooseneck proper itself and substituting any other ornament or omitting any ornament entirely, though the exact construction we have shown in all details is much to be preferred.

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

1. In a hand-sled, the combination of the runner A; the fender C, with its forward end mortised into the top end of the runner A; the rave B, extending over the two and secured by the suitable nail *a*, extending down through the whole; a gooseneck D, recessed to fit the nose of the sled on its under side having a strap portion F, extending down over the shoe and secured by a nail to the runner and having wings E, E, bearing point-

ed lugs *c, c*, which are pressed into each side of the runner to engage the same as specified.

2. In a sled, the combination of the nose of the sled of a gooseneck or other device *D*, recessed on its under side to fit over the nose and having a strap portion *F*, extended down over the front portion of the runner and secured thereto by suitable means as a nail or screw and also having flexible wings *E, E*, compressed onto each side of the runner to engage the same as specified.

3. In a sled, the combination of the nose of a sled; a gooseneck or other device *D*, recessed on its under side to fit the same having a strap portion *F*, extending down over the front of the runner and secured thereto by a suitable nail or screw and also having wings *E, E*, bearing pointed lugs *c, c*, which

are pressed into each side of the runner to engage the same as specified.

4. In a sled the combination of the runner; the fender mortised into the top thereof; the rave extending over the two; a cap of metal to fit over the whole having flexible wings extending to each side of the runner to fold upon the sides and engage the same as specified.

In witness whereof we have hereunto set our hands and seals in the presence of two witnesses.

HALE P. KAUFFER. [L. S.]
WILLIAM E. KIDDER. [L. S.]

Witnesses:

WM. A. KEYSER,
D. E. RICKMAN.