

(No Model.)

A. O. KRUGER & C. TRIM.

SLEIGH.

No. 305,522.

Patented Sept. 23, 1884.

Fig. 1.

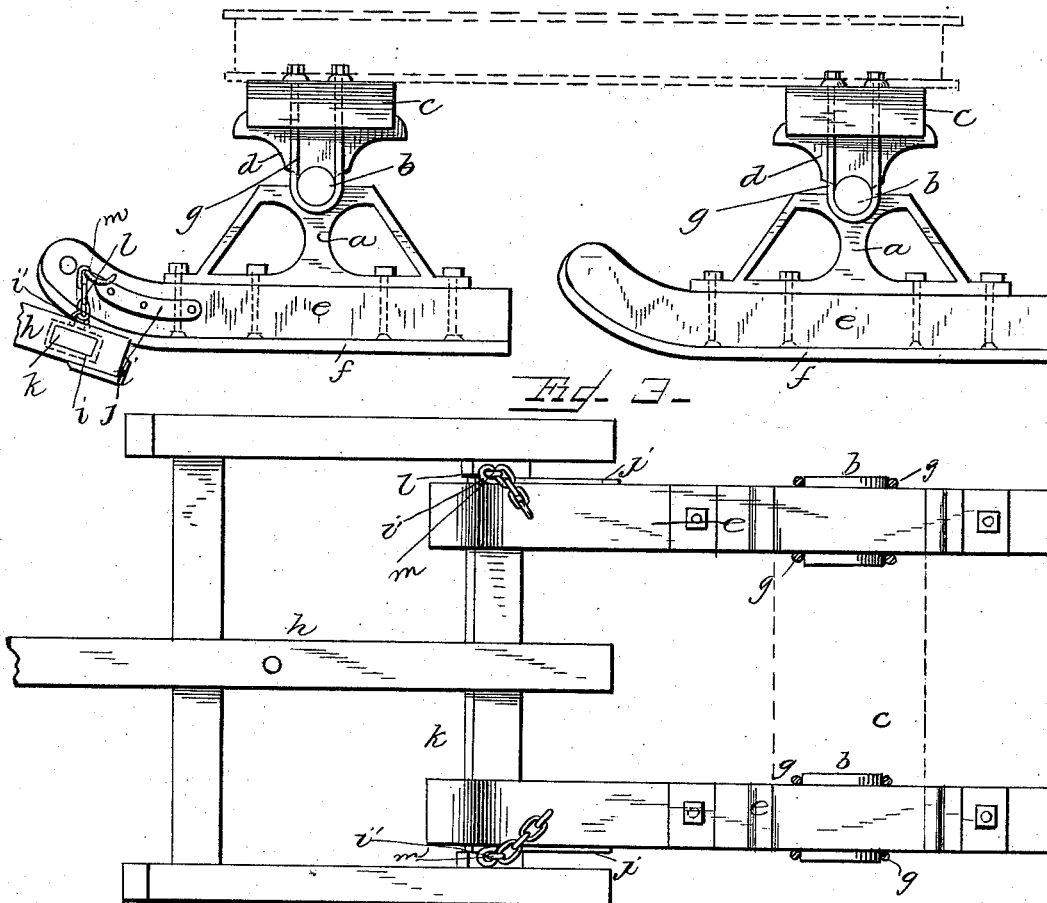
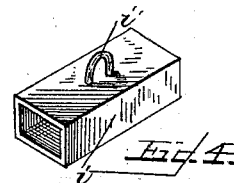
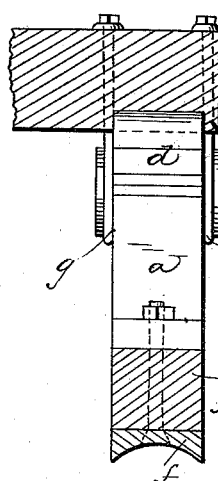
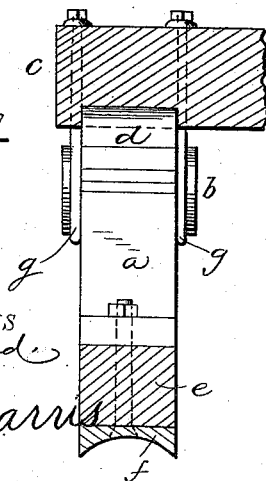


Fig. 2.



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# UNITED STATES PATENT OFFICE.

ANTHON OLSEN KRUGER AND CHARLES TRIM, OF HOUGHTON, MICHIGAN.

## SLEIGH.

SPECIFICATION forming part of Letters Patent No. 305,522, dated September 23, 1884.

Application filed March 21, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, ANTHON OLSEN KRUGER and CHARLES TRIM, citizens of the United States, residing at Houghton, in the county of Houghton and State of Michigan, have invented a new and useful Sleigh, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to sleighs; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 is a side elevation of a sleigh embodying the improvements of our invention. Fig. 2 is a transverse vertical sectional view, and Fig. 3 is a plan view. Fig. 4 is a view in perspective of one of the eye-bands for the rear cross-bar of the tongue.

Referring by letter to the accompanying drawings, *e e* designate the sleigh-runners, and *ff* the sleigh-shoes, fluted, as shown. The standards *a* are bolted to the sleigh-runners, and are provided at their upper ends with journals *b*, cast with the standards. The rockers *d* rest on the journals *b*, and the beams *c* are secured to the rockers by the staple-straps *g*, the curved ends of said staple-straps passing around the journals *b*, and the arms of the straps passing up through the beams, their

projecting ends being provided with nuts for holding them in place. The tongue *h* is provided on its rear cross-piece, *k*, with bands *i i*, having eyes *i'* for the chains *l l*, by which the tongue is connected to the sleigh-runners, the latter being provided with straps *j j*, having hooks *m m* for the chains.

A sleigh of this construction is simple, cheap, and durable.

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

1. In a sleigh, the combination, with the sleigh-runners and sleigh-beams, of the standards provided with the projecting journals, the staple-straps, and rockers, substantially as specified.

2. The combination, with the sleigh-runners provided with the hook-strap near their forward ends, of the tongue having its rear cross-bar provided with eye-bands, and the connecting-chains, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

ANTHON OLSEN KRUGER.  
CHARLES TRIM.

Witnesses:

THOS. D. MEADS,  
XAVIER SALGAT.