

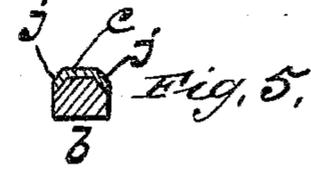
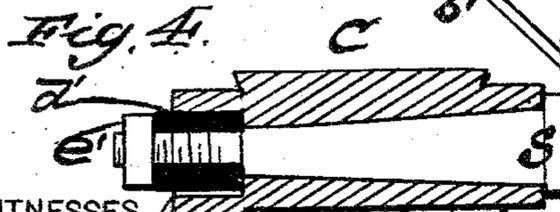
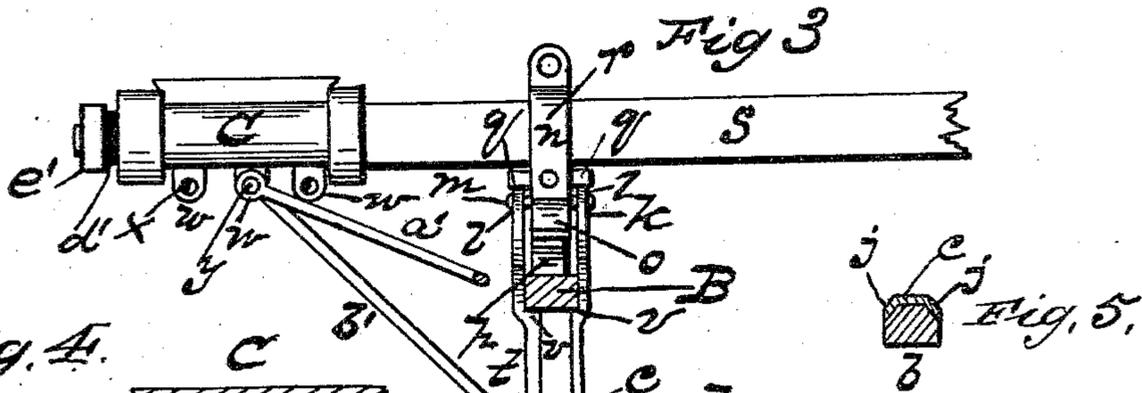
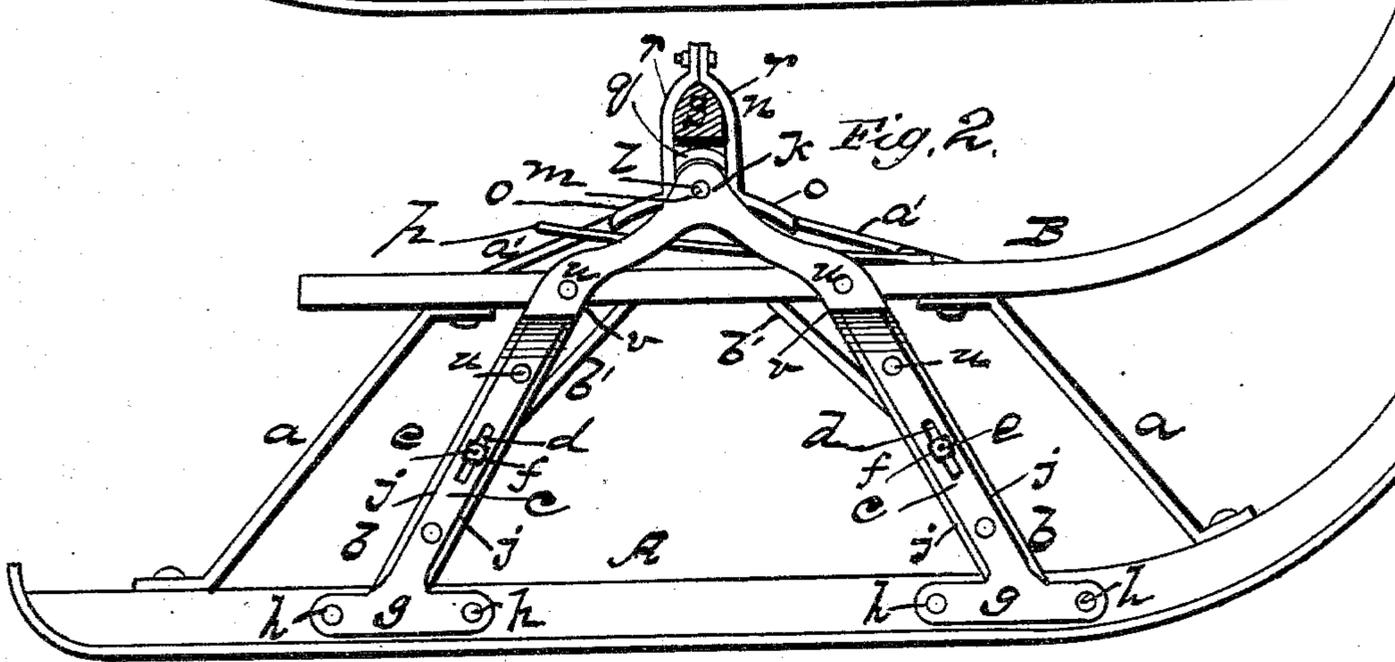
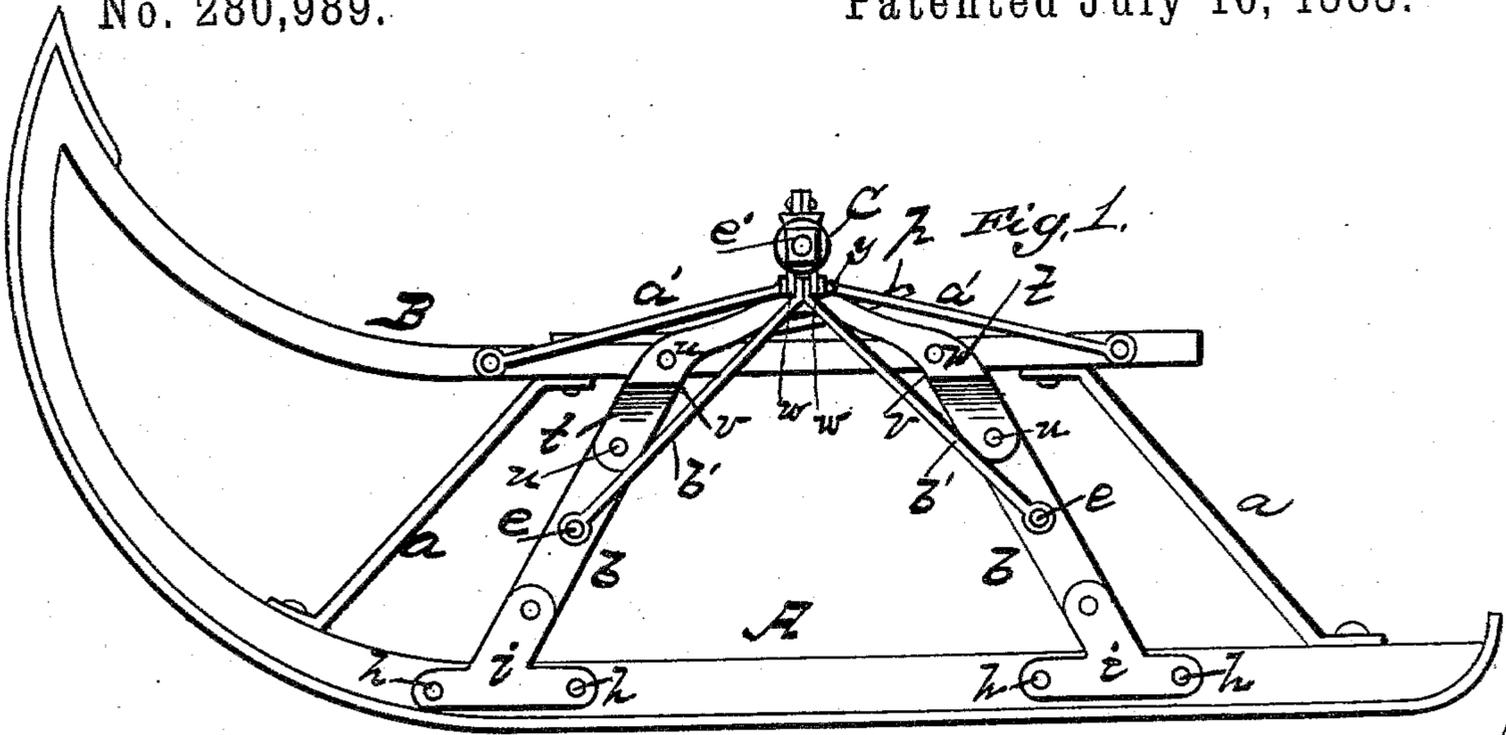
(No Model.)

M. C. WRIGHT.

SLEIGH RUNNER.

No. 280,989.

Patented July 10, 1883.



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UNITED STATES PATENT OFFICE.

MITCHELL C. WRIGHT, OF NEWARK, OHIO.

SLEIGH-RUNNER.

SPECIFICATION forming part of Letters Patent No. 280,989, dated July 10, 1883.

Application filed May 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, MITCHELL C. WRIGHT, a citizen of the United States, residing at Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in Sleigh-Runners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to improvements in sleigh-runners, and it is an improvement on Letters Patent granted to me by the United States on the 14th day of August, 1877, and numbered 194,208; and the invention consists in the construction and novel arrangement of the various parts of which it is composed, as will be hereinafter more fully explained.

The annexed drawings, to which reference is made, fully illustrate my invention, in which Figure 1 represents an outside view of my runner. Fig. 2 is an inside view of the same. Fig. 3 is a cross-section, and Figs. 4 and 5 are detail views.

Referring by letter to the accompanying drawings, A designates the runner, and B the rave, both constructed in the usual manner and secured to one another by braces *a a* and posts *b b*. To one side, preferably on the inside, of the runner are secured to the posts *b b* brace-bars *c c*, that are slotted at *d* to receive the bolts *e*, that pass through the posts and bars and are secured by nuts *f f*. Said bars are formed with T-heads *g*, that are perforated to receive the bolts *h h*, that pass through the short T-braces *i i*, having similar perforations, and through the runner, thus securing the post and runner at the point where they intersect one another, as shown in Figs. 1 and 2 of the drawings. Said bars are further provided with side flanges, *j j*, that overlap the corners of the posts, and serve to strengthen the same and assist in keeping the posts in their proper position. The bars just mentioned incline upward and inwardly, and terminate at the point *k*, through which are lateral perforations *l l* to receive a bolt, *m*, that passes through a perforation in rocking support *n*. Said support is provided at its lower portion with outwardly-projecting feet or lugs *o o*, that bear upon a spring, *p*, secured to the upper face of the

rave, as shown, and on either side of the support the same is provided with projecting semi-circular lugs or bearings *q q*, that rest upon the top of the bars *c t* at the point where the same join one another. The vertical arms *r r* of the support *n* are bolted together above the axle *s*, thus securely clamping said axle between them and firmly securing the support and axle to one another. The support is arranged or mounted upon the pivot-bolt *m*, between the brace-bars and directly above the rave B, and the outer bar, *t*, is somewhat shorter than the inner one, the same extending only sufficiently far below the rave to connect the upper end of the post and rave by means of the transverse bolts *u u*, which latter also pass through the inner brace-bars, *c c*, at the same time. The bars on either side are shouldered, as at *v v*, thereby strengthening posts and rave where they intersect one another.

The letter C indicates a thimble or sleeve to receive the spindle of the axle, and the same is provided on its under side with lugs *w w*, arranged in pairs and provided with lateral perforations *x x* to receive a bolt, *y*, which passes through eyes in the ends of brace-rods *a' a' b' b'*, the opposite ends of which are secured to the rave and posts, as shown. The thimble aforesaid is constructed with an annular groove or seat-bearing, *c'*, at its forward end, to receive an elastic ring, *d'*, which is interposed between said thimble and the nut *e'* on the end of axle, thereby preventing any rattling.

It will be observed by reference to the annexed drawings that my runners are to take the place of the wheels of a vehicle when it is desired to use the vehicle as a sleigh, and the support, being constructed with the side semi-circular bearings or lugs, relieves the pivot-bolt from strain. At the same time the spring admits of a yielding movement to the runners, thereby permitting the same to ride easily and rise over any obstructions, and by means of the slotted braces the brace-rods *a' b'*, attached to the posts, can be readily adjusted.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a sleigh-runner, of
the slotted brace-bars *c c*, support *n*, having
semicircular lugs or bearings *q q* and lugs or
feet *o o*, spring *p*, thimble C, and brace-rods
5 *a' a' b' b'*, as shown and described.

2. The thimble C, provided with the annular
groove *c'*, adapted to receive the cushion *d'*,
and lugs *w w* on its under side, in combination

with the rods *a' a' b' b'*, brace-bars, and sup-
port *n*, as shown and described. 10

In testimony whereof I affix my signature in
presence of two witnesses.

MITCHELL C. WRIGHT.

Witnesses:

A. H. JONES,
JOHN DAVID JONES.