

A. R. BAXTER.

Sled.

No. 97,267.

Patented Nov. 30, 1869.

Fig. 1.

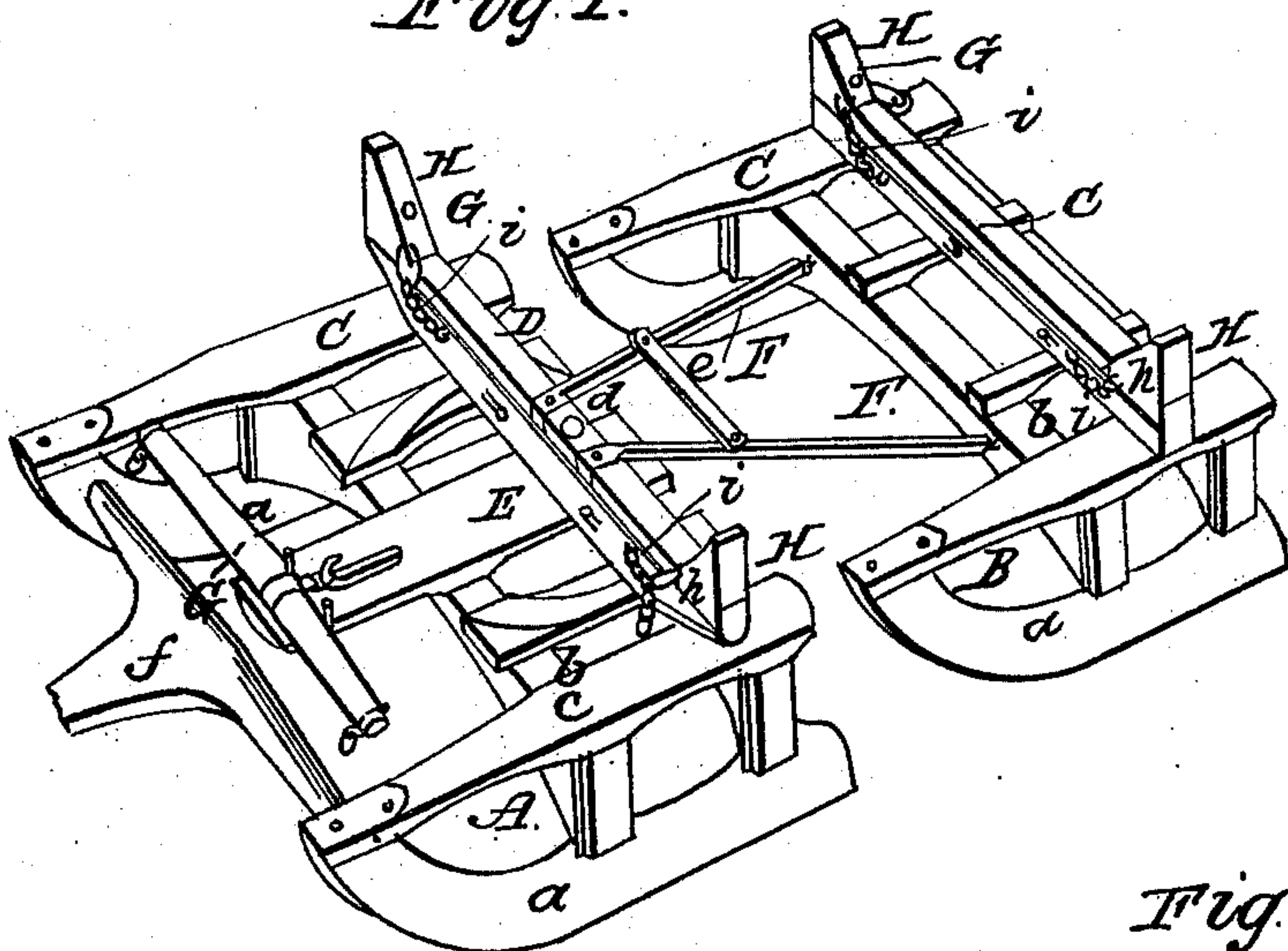
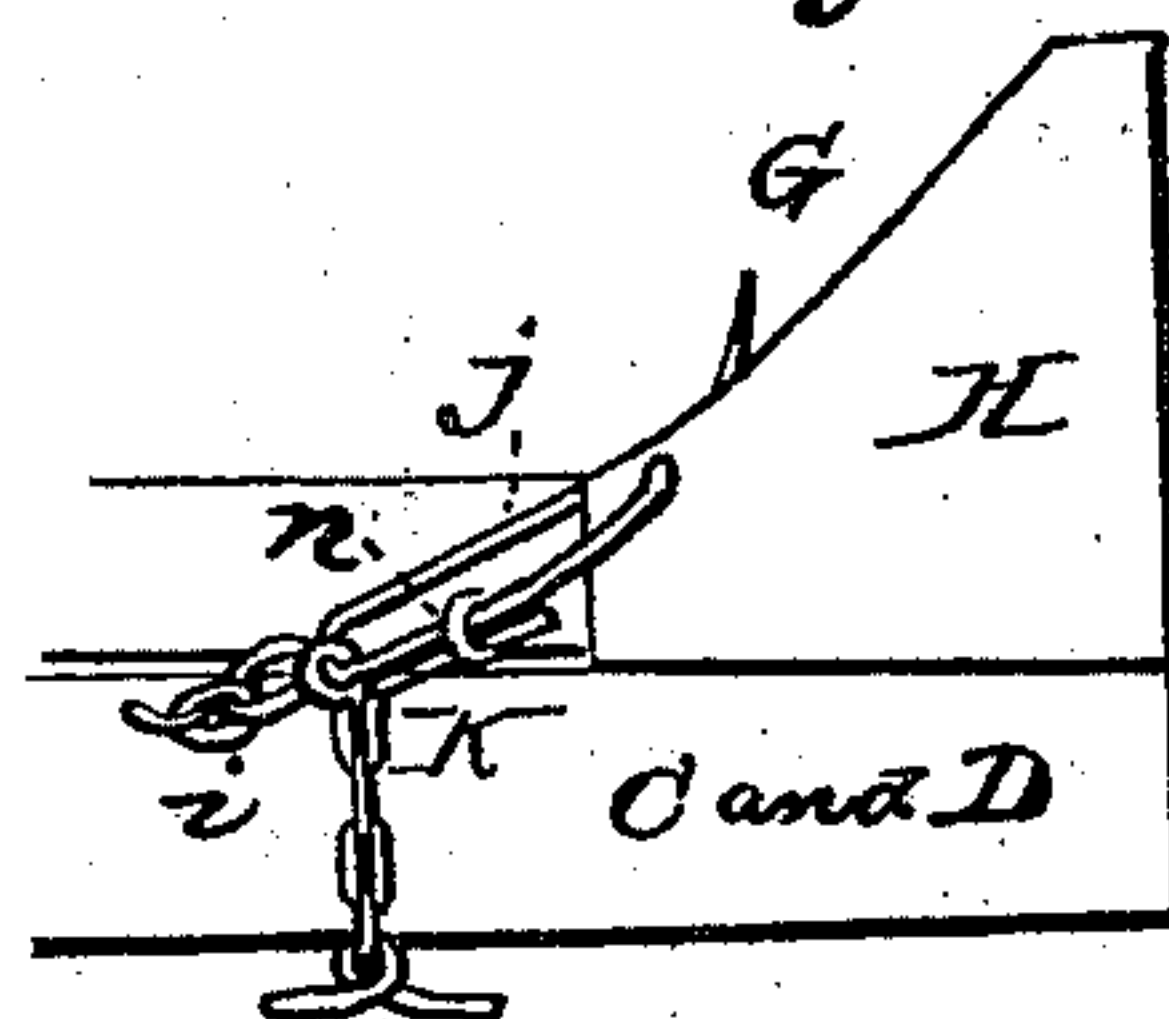


Fig. 3.



Fig. 2.



Witnesses

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ALBERT R. BAXTER, OF PECK POST OFFICE, MICHIGAN.

Letters Patent No. 97,267, dated November 30, 1869.

IMPROVEMENT IN LOGGING-SLEDS.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, ALBERT R. BAXTER, of Peck Post Office, in the county of Sanilac, and State of Michigan, have invented a new and useful Improvement in Logging-Sleds; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention relates to the construction of sleds or sleighs, more especially adapted to hauling logs upon by lumbermen; and

It consists—

First, in securing the draught much nearer the load, thereby enabling the team to handle the load with more ease;

Secondly, in giving a concave form to the bottom of runner-shoes, thereby preventing a lateral sliding or scraping motion of the runners;

Thirdly, in fitting the bolsters with adjustable chucks, thereby avoiding the frequent danger of the logs rolling off the sled by the displacement of temporary chucks, as the adjustable chucks are secured in their position by a novel arrangement of a chain, hook, and ring, in such a manner, that no matter how much pressure there may be against the chuck, the displacement of the ring will enable the operator to remove said chucks easily;

Fourthly, in so constructing the tongue that the team may be secured in close proximity to the load; and

Fifthly, in the new, novel, and ingenious arrangement of its various parts.

Figure 1 is a perspective view of my sleigh.

Figure 2 is an enlarged view of my fastening for the adjustable chucks.

Like letters indicate like parts in each figure.

In the accompanying drawings—

A B represent the front and rear parts of what is ordinarily termed a "pair of bobs," the runners *a*, benches *b*, and raves *c*, being constructed and put together in the usual manner.

The runners are provided with the usual iron shoe, which is concave on the bottom, as shown in a detached view, to prevent a lateral motion of the runners.

C is a bolster, rigidly secured to the rear sled B; and

D is a bolster, pivoted to the sand-board E, which is rigidly secured to the front sled A, said bolster being pivoted by the usual king-bolt *d*.

A double reach, F, connected together by the tie or brace *e*, secures the two sleds, A and B, together; the forward ends of said reach being secured to the bolster D, while the rear ends are secured by hooks to the front bench of the rear sled B.

By means of this method of connecting the two sleds together, the rear one has a steadier motion, and is more certain to follow in the track of the front sled.

G is a double-tree, hooked or otherwise conveniently secured to the sand-board E, for the purpose of bringing the draught nearer the load; and, as the strain of the draught is relieved thereby from the roll and tongue *f*, the necessity of the usual iron braces, extending from near the outer ends of the roll to the tongue, is obviated, so that the horses may be hitched much closer to the front of the sled.

H are chucks upon the bolsters C and D, there being a chuck upon each end of each bolster.

The bases of these chucks are equal in width to the width of the bolster, upon which they may be moved forward or backward, at pleasure, or as circumstances may demand.

These chucks should be made of the form shown in the drawings, and should be provided with metallic spurs, *g*, to prevent the logs resting against them from slipping.

The chucks are also provided with metallic plates, *h*, secured to opposite sides, and projecting below the base of the chucks, thereby forming a recess, which engages with the bolsters and guides the chucks in their reciprocating motion.

To each of the chucks is also secured a chain, *i*, which then passes through suitable holes in the bolsters.

The opposite side of the chuck is provided with a link, *j*, to which is secured, by an eye, the hook *k*.

The chuck, having been placed at any desired position on the bolster, the chain is drawn through the hole in the bolster, and the hook *k* inserted in one of the links of the chain.

It will be noticed that what I have termed a hook, is perhaps more properly a hook and pin, so arranged, that after being passed through the link in the chain, as above described, should there be a strain upon the chain, the pin would draw out of the link.

To obviate this, when it is desired to hold the chuck in place, a ring, *m*, is sleeved on the link *j*, and then passed over the end of the hook.

When it is desirable to move the chuck, it may be readily done by disengaging the ring *m* from the pin or hook, when the chain will be loosened.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In logging-sleds, the double reach F, provided with cross-bar *e*, and connecting the bolster D with the forward bend of the rear sled, when constructed, arranged, and operating as and for the purpose set forth.

2. In logging-sleds, securing the double-tree *G* to the sand-board *E*, in connection with the tongue and roll *f*, for the purposes specified.

3. The adjustable chucks *H*, upon the bolsters, when constructed and operating as and for the purposes described.

4. The chain *i*, link *j*, hook or pin *k*, and ring *m*, in connection with the chucks and bolsters, for the purposes set forth.

5. The construction of the runners *a*, provided

with concave shoes, benches *b*, raves *c*, bolsters *C D*, sand-board *E*, reach *F*, roll and tongue *f*, chucks *H*, chains *i*, links *j*, hook or pin *k*, and ring *m*, when constructed and arranged substantially as herein set forth and described.

ALBERT R. BAXTER.

Witnesses:

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