

No. 653,223.

Patented July 10, 1900.

A. DROWN.

'BOB SLED.

(Application filed Apr. 7, 1900.)

(No Model.)

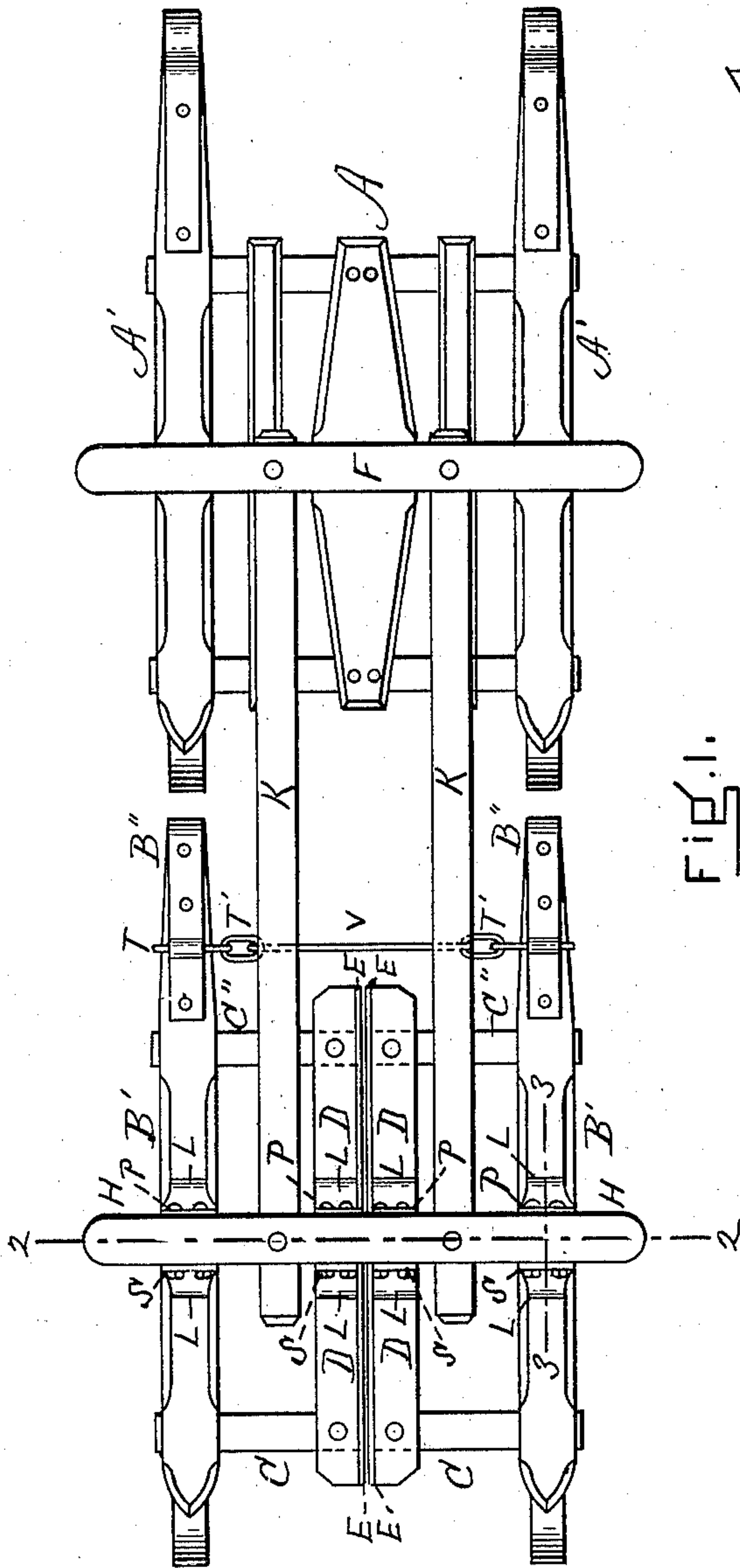


FIG. 1.

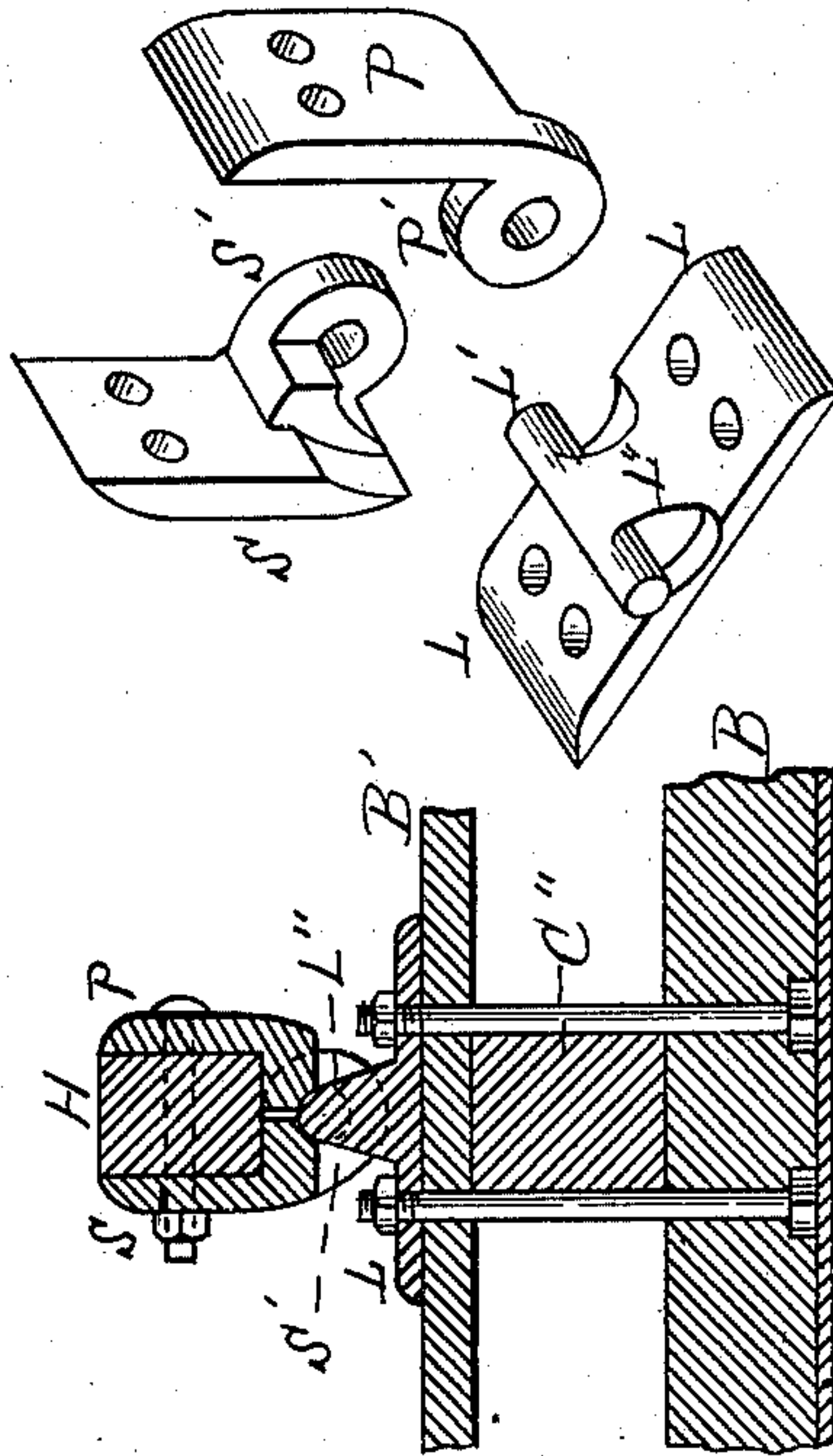


FIG. 3.

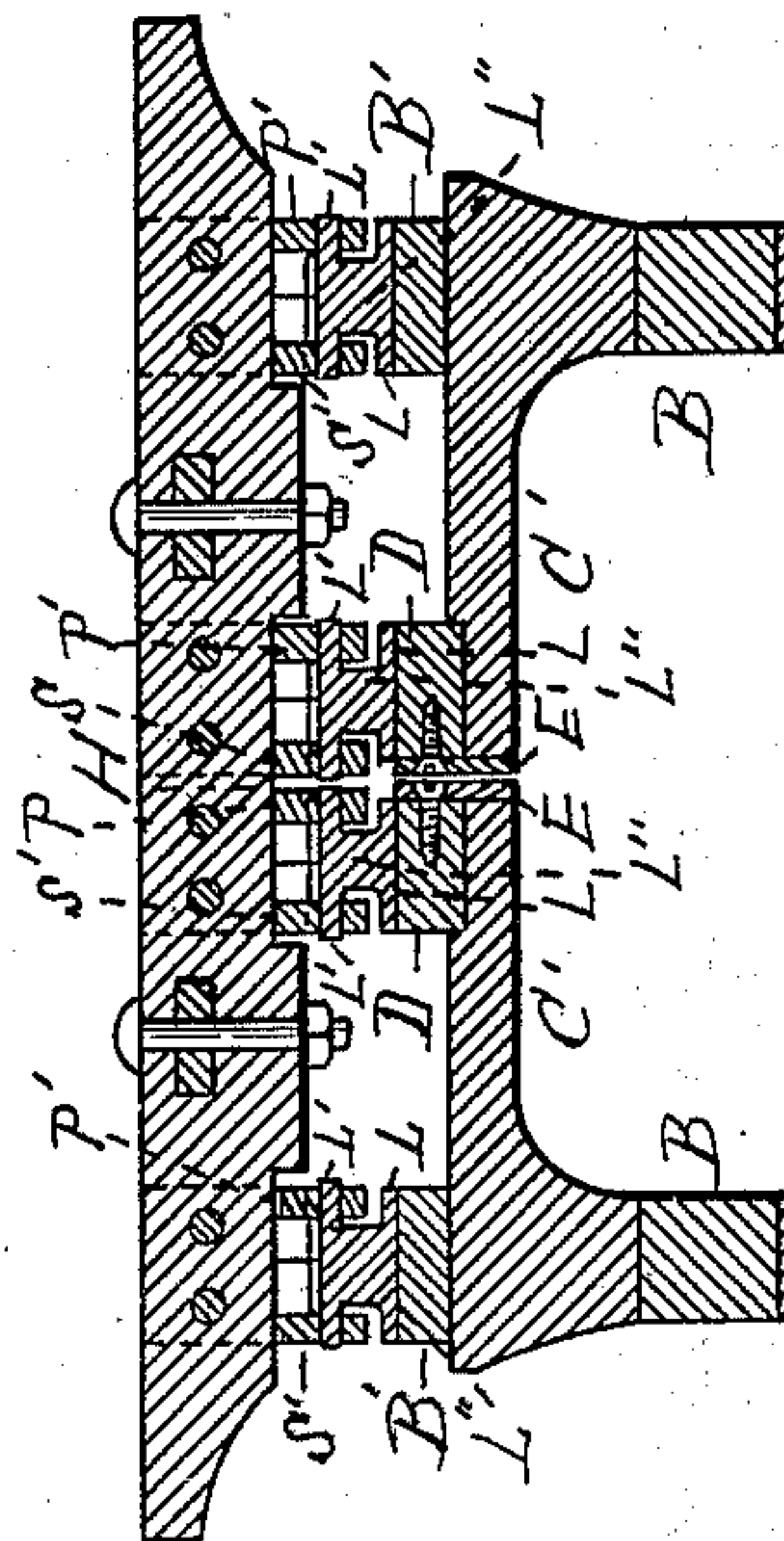


FIG. 2.

FIG. 4.

WITNESSES

A. W. Bonney,  
E. P. Small.

INVENTOR  
Aaron Drown,  
By his Atty.  
Sherry & Williams



# UNITED STATES PATENT OFFICE.

AARON DROWN, OF BARTON, VERMONT.

## BOB-SLED.

SPECIFICATION forming part of Letters Patent No. 653,223, dated July 10, 1900.

Application filed April 7, 1900. Serial No. 11,960. (No model.)

*To all whom it may concern:*

Be it known that I, AARON DROWN, a citizen of the United States, residing in Barton, in the county of Orleans and State of Vermont, have  
5 invented new and useful Improvements in Bob-Sleds or Bob-Sleighs, of which the following is a specification.

This invention or improvement relates to the running-gear and its immediate connections in distinction from the body portion of a bob-sled or bob-sleigh, and particularly to that class of bob-sleds in which the rear runners are made independent in their movements of each other; and it consists in the  
10 novel construction and arrangements of parts fully described below and illustrated in the accompanying drawings, whereby strength and lightness are secured and the contrivance is improved in other respects, as below specified.  
20

In the accompanying drawings, in which similar letters of reference indicate corresponding parts, Figure 1 is a plan view of a sufficient portion of a bob-sled or bob-sleigh  
25 to illustrate my invention. Fig. 2 is a cross vertical section taken on line 2, Fig. 1. Fig. 3 is a vertical section taken on line 3, Fig. 1. Fig. 4 is an enlarged perspective view of the separated parts comprising one of the joints  
30 connecting the rear bolster with the runners of the rear section.

A represents the front section, provided with runners A'. The rear section consists of two parts exactly alike in construction and  
35 independent of each other in their movements, each part consisting of the runners B B', the cross-pieces C C' C'', and longitudinal bar D. The bars D are located at the extreme inner edge of each part, and as said  
40 parts move independently of each other the bars are provided on their inner surfaces with long chafing-plates E, which extend the full length of the bar D across all three of the cross-pieces C C' C'', thus preventing friction  
45 and injury therefrom for the entire length of the parts constituting the rear section, adding to the strength and rigidity of said parts, and preventing relative lateral movement.

F and H represent the front and rear bol-

sters, and K the two longitudinal bars which  
50 constitute the tongue. The front bolster F is pivoted to the front section A in the ordinary manner. The rear bolster H rolls on the upper bars B', Figs. 2 and 3, of the rear runners and the bars D by means of the following  
55 construction: Said runners and bars are each provided centrally on their surfaces with a metallic base-plate L, Figs. 2, 3, and 4, screwed to the bar and formed up into a double horizontal pivot or pintle L', centrally  
60 supported by a standard L'', said plate, standard, and pivot being integral. The opposite sides—that is, the front and rear sides of the bolster H—are provided, respectively, by  
65 means of suitable screws, with plates P and S, formed at their lower ends with sockets P' and S', into which the opposite ends of the pintle L' extend. Thus four strong joints are  
70 provided between the bolster H and the parts constituting the rear section, whereby said parts can roll independently under the bolster without perforating said bolster vertically at the joints—that is, at the points where  
75 the rolling plates are applied—and thus weakening it at said points.

Instead of connecting the "reaches" B"—that is, the front ends of the rear sled—with the tongue each reach is provided with a suitable loop or band T, which is connected by a long link T' to the end of a rigid rod V. By  
80 employing the rigid rod V and securing its ends by a flexible or loose connection to the reaches B" the two portions of the rear section are allowed sufficient independence of movement and are at the same time prevented  
85 from spreading and straining to a greater extent than could be the case if the reaches were connected by chains with the tongue K or by a chain with each other.

It should be understood that I make no  
90 claim to the broad idea of a pair of independently-moving runners placed side by side in a bob-sled; but

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

In a sled or sleigh of the character described, the combination with the two independently-rocking runners of a section, and  
95

the bolster H extending across said runners;  
of the joints each comprising the plate L, L'  
formed with the pivot or pintle L' and secured  
to the upper side of one of the parts of said  
5 section, and the plates P, S provided with the  
sockets P', S' and secured to the front and rear  
sides respectively of the bolster without ver-

atically perforating or extending vertically any  
securing appliance through the same at said  
joints, substantially as described.

AARON DROWN.

Witnesses:

ROY A. BEAN,

NATHANIEL M. HUBBARD.