

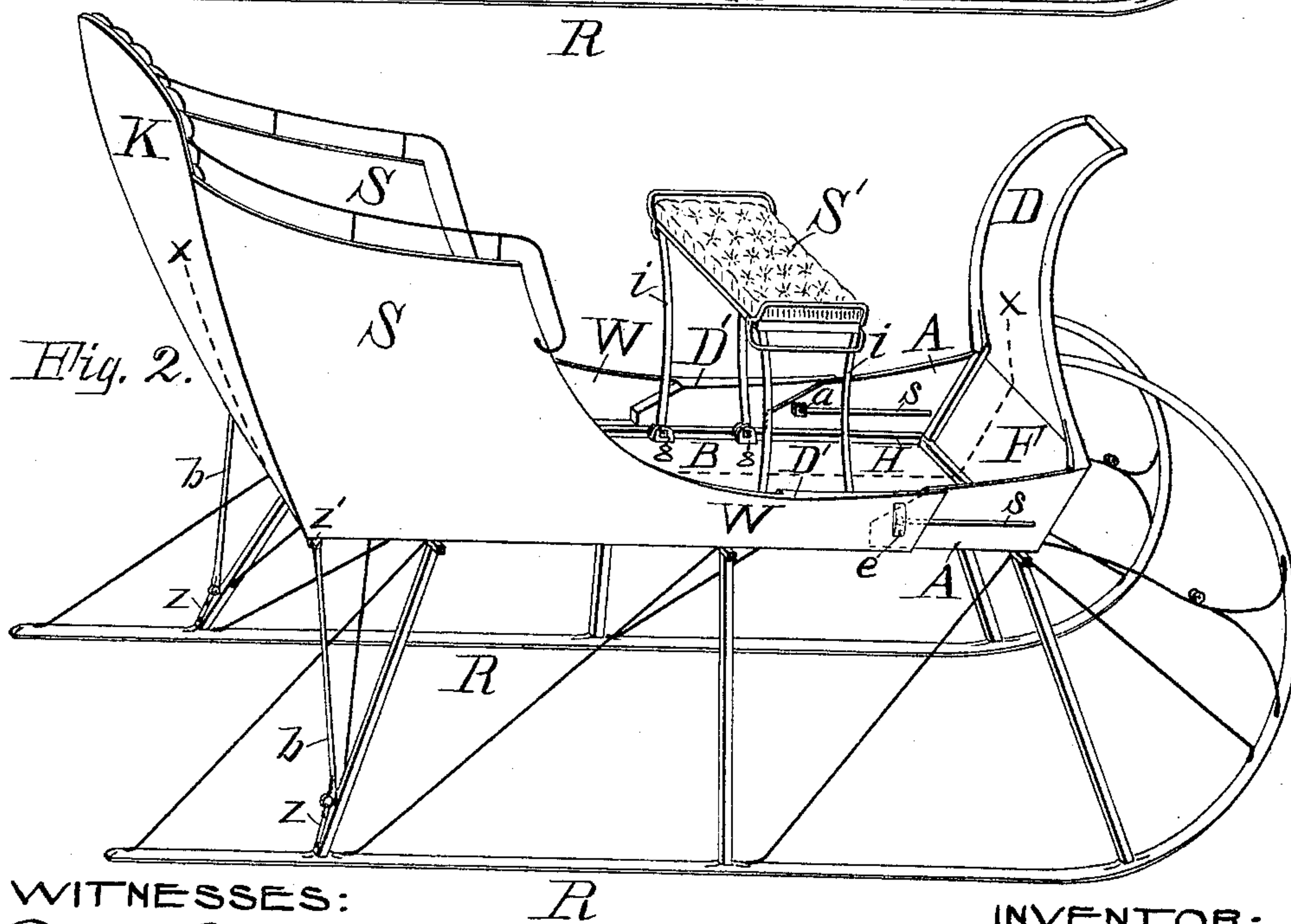
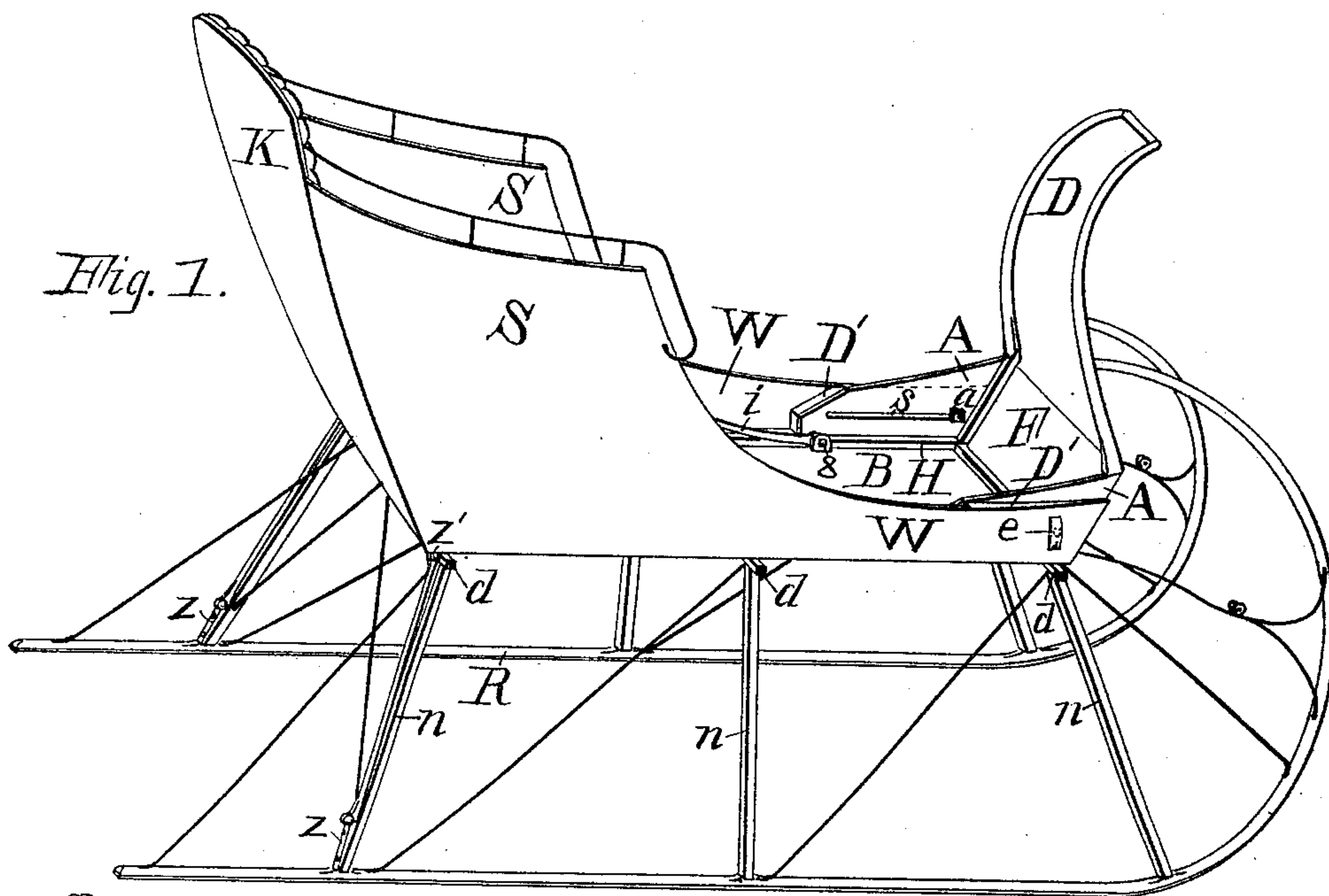
(No Model.)

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W. D. RUMSEY.  
SLEIGH.

No. 407,120.

Patented July 16, 1889.



WITNESSES:

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J. W. Faring

INVENTOR:

William D. Rumsey  
By Edgar A. Wheeler  
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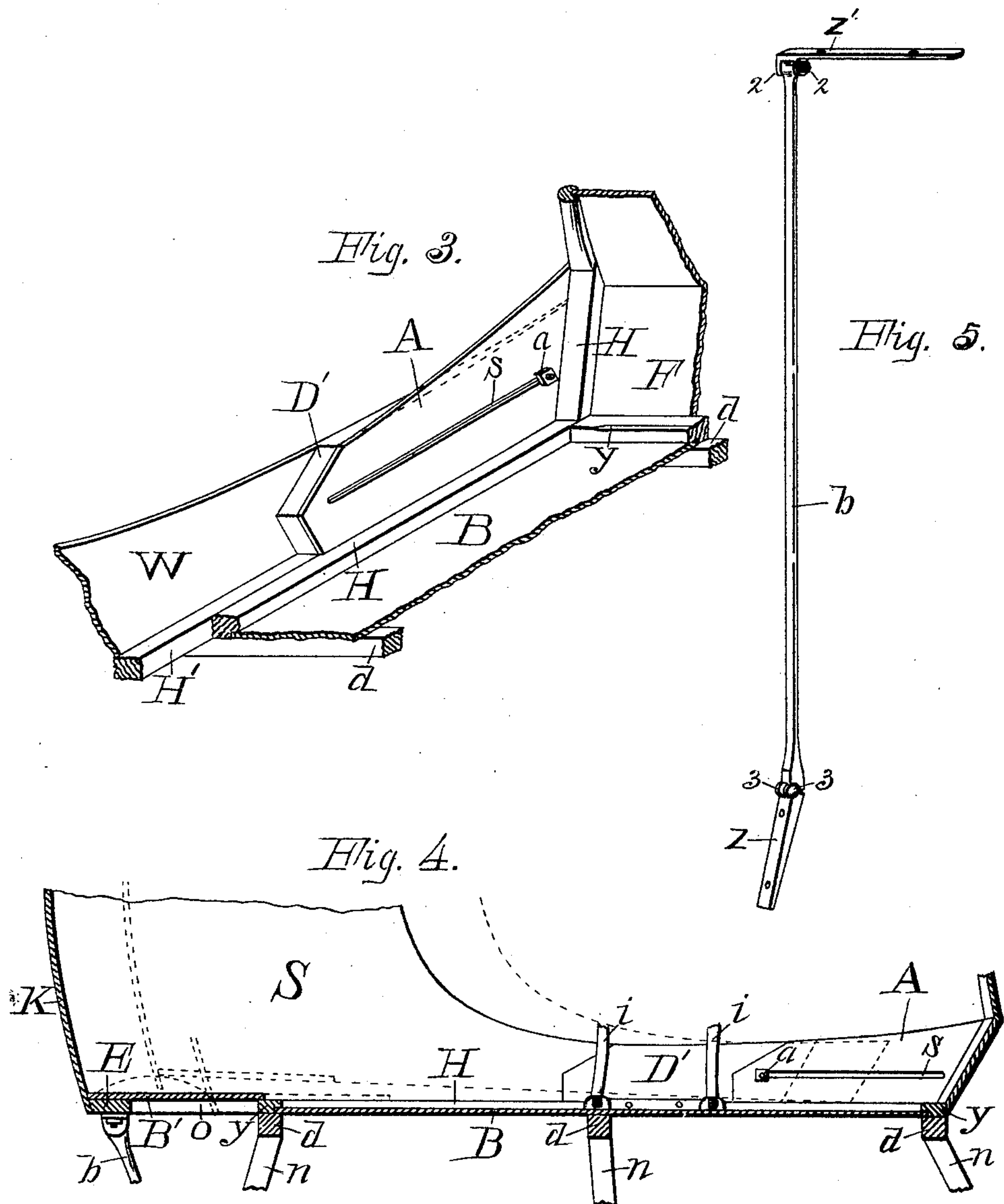
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# UNITED STATES PATENT OFFICE.

WILLIAM D. RUMSEY, OF DETROIT, MICHIGAN.

## SLEIGH.

SPECIFICATION forming part of Letters Patent No. 407,120, dated July 16, 1889.

Application filed January 31, 1889. Serial No. 298,281. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM D. RUMSEY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Sleighs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

15 This invention relates to certain improvements in sleighs, the object being to construct a cheap and durable sleigh which may be readily changed from a single to a double seated sleigh, or vice versa.

20 In the drawings is shown a style of sleigh known as the "Portland," in which a jump-seat is fixed to the stationary bottom of the sleigh. The sides and rear end of the sleigh-box also support a seat, and all of said last-mentioned parts move horizontally on the gear or frame-work of the sleigh, as hereinafter described. The increase of room for the second seat is obtained by moving the sides and back of the box rearwardly over the sleigh-frame, as will be hereinafter fully set forth, and the essential features of my device pointed out particularly in the claims.

In the accompanying drawings, forming a part of the specification, Figure 1 is a perspective of my improved sleigh when arranged as a single-seated sleigh. Fig. 2 is a perspective of same, showing the sleigh adjusted to a two-seated sleigh. Fig. 4 is an enlarged central vertical section of the body, taken on dotted line *xx* of Fig. 2. Figs. 3 and 5 are enlarged details in perspective.

In the drawings, *R* indicates the runners; *n*, the knees; *d*, the cross-sills or beams which constitute the running-gear of the sleigh; *D*, the dash; *B*, the bottom of the sleigh. All of said parts are constructed in the usual way, and therefore will require no special mention.

50 *H* represents the side and *Y* the end rails or frame, which is made fast to the beams *d* of the sleigh. The bottom *B* is made fast to said frame. (See Figs. 3 and 4.)

*A* is a side section made fast to the rail *H* and extending along the ends of the foot-board *F*. (See Fig. 3.) Section *A* is employed on each side of the sleigh and forms a portion of the side of the box when the body is drawn out to form a two-seated sleigh, as shown in Fig. 2. Said section *A* is made (preferably) of iron, and provided with the horizontal slots *s*, for purposes hereinafter described.

*H'* represents sliding bars, which are located outside of the stationary rails *H* and on a horizontal plane therewith. The sides *SW* of the sleigh are attached to the outer face of the sliding bars *H'* (see Figs. 1 and 3) and slide back and forth with said bars as the body is adjusted.

*Y* is a cross-rail connecting the rear ends of the rails *H*. The rear ends of the sliding bars *H'* are connected by the cross-rail *E*. To said cross-rail the back of the box *K* is attached. Located in the body between the sides *SS* is a seat, which travels with the box or body when changing the sleigh to a single or double seat.

*S'* is an ordinary jump-seat having legs pivoted thereto and at *S* to the stationary bottom *B*. (See Fig. 2.)

The reduced side portions *W* of the box or body are of an equal height to the fixed side sections *A* and slide along and overlap said sections *A*, when the sleigh is arranged as shown in Fig. 1. The side portions *W* are adjustably attached to the side sections *A* by means of the bolts *e*, which pass through the forward ends of the side portions *W* (see Figs. 1 and 2) and through the slots *s* in the side sections *A* and are secured therein by means of the nuts *a*. The bolts *e* fit loosely in the slots *s* and slide freely therein as the sleigh is adjusted.

*D'* *D'* are filling-blocks, which are located on each side of the sleigh and are firmly attached to the reduced side portions *W* of the box. The height of said blocks is the same as the parts *W* *A*. Said blocks are mounted on the sliding bars *H'* and move with them when shifting the box or body.

To each of the rear knees *n* is attached a metal plate *Z*, having ears *3* *3*. Between said ears is pivoted one end of the braces *b* *b*. The



opposite end of said braces is in a like manner pivoted to the metal plates  $Z' Z'$ , made fast to the traveling cross-rail  $E$  of the body.

In the rear end of the body,  $B'$  shows a board or auxiliary bottom crossing the bottom of the sleigh. Said board is attached to the upper face of the sliding bars  $H' H'$  and the cross-rail  $E$ . This board, when the box is moved back over the gear or stationary frame, sliding over, closes the opening  $O$ , formed in the bottom of the sleigh at the rear end, (see Fig. 4,) and when the body is moved forward, as shown in Fig. 1, said board slides forward over the rear end of the stationary bottom  $B$ , as shown by dotted lines in Fig. 4.

The adjustment of the body is accomplished in the following manner: The sleigh being arranged as a single seat, as shown in Fig. 1, to change it to a two-seated sleigh the operator grasps the body or box at the rear end, and, lifting slightly up and backward, the box and its seat will slightly rise and slide backward on the swinging braces  $b b$  until the box again rests on the sleigh-frame, when said box will be extended rearwardly over the end of the sleigh gear or frame, as shown in Fig. 2, in which position the swinging braces  $b b$  also act as a support to the rear end of the sleigh-box. The jump-seat is then swung upward, as shown in Fig. 2, thus forming a two-seated sleigh.

It will be observed that as the box moves backward the tie-bolt  $e$ , having the nut  $a$ , travels in the slot  $s$  in the side sections  $A$ .

To change the sleigh back to a single seat, the jump-seat  $S'$  is turned back and downward onto the bottom  $B$ . The sleigh-box at the rear end is slightly raised, then forced forward, causing the rear seat to be advanced over the jump-seat, as shown in Fig. 1, making a single-seated sleigh.

The manner of attaching the braces  $b b$  to the rear end of the box makes it necessary to first raise the box before moving it horizontally, and for this reason the box cannot become adjusted when the rear seat is occupied,

as the weight of the occupant prevents the box from rising.

It will also be observed that the sliding bars  $H'$ , passing, as they do, on the outside of the fixed side rails  $H$ , firmly secure the adjustable body of the sleigh against lateral motion when adjusted to either a single or double seated sleigh.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the running-gear of the sleigh, the stationary foot-board, the rearwardly-extending side sections made fast at one end to said foot-board, the horizontal slots in the side sections, the horizontally-sliding box having the reduced sides  $W$ , which overlap the side sections  $A$ , and the bolts loosely coupling the overlapped portions, substantially as and for the purposes specified.

2. In a sleigh, and in combination, the beams, the rails made fast thereto, the stationary foot-board, the side sections attached thereto, the slots  $s$ , the shifting box having the bars  $H'$  made fast thereto and lying parallel with and outside of the rails  $H$ , the reduced sides of the box overlapping the side sections, and bolts coupling movably the sides of the box to the fixed or side sections, as and for the purposes specified.

3. In combination with the beams, knees, and runners of the sleigh, the stationary foot-board, the metal side extensions, the shifting box, the swinging braces coupling the box to the running-gear of the sleigh, and means of adjustably coupling the sides  $W$  of the box to the fixed sections  $A$ , whereby the box is adapted to be moved forward and backward to decrease and increase its length, for the purposes specified.

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

WILLIAM D. RUMSEY.

Witnesses:

EDGAR S. WHEELER,  
WM. C. SPRAGUE.