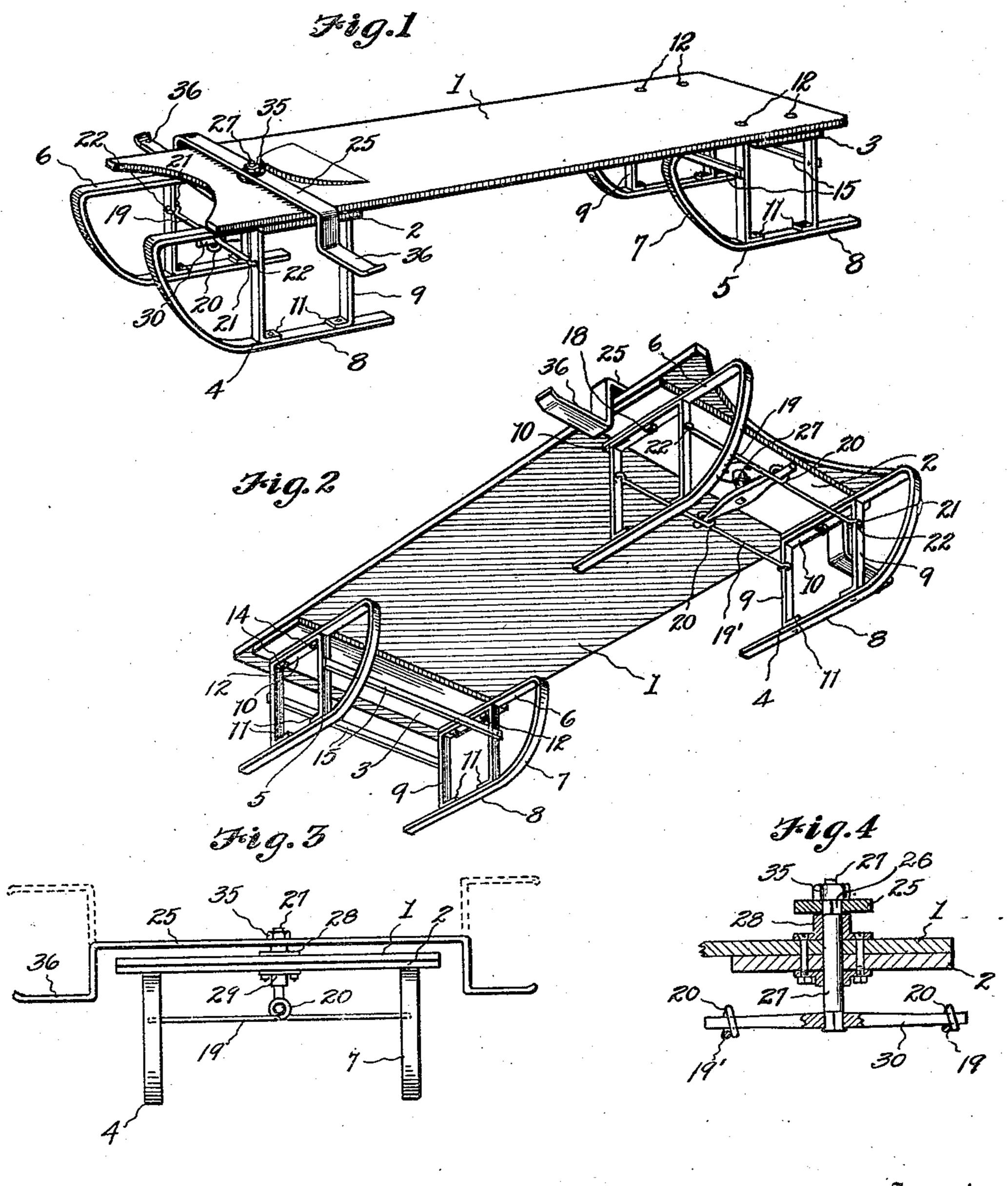
## S. S. GRIFFIN

SLED

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## UNITED STATES PATENT OFFICE.

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SLED.

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To all whom it may concern:

5 State of Washington, have invented certain to the runner bar 8. new and useful Improvements in Sleds, of The runners at the rear of the sled are 60

10 that type commonly used for coasting; the 6 of the runners and bars 10 of the braces to provide a durable and substantial steer- thereon which are drawn tight to hold the able sled, second, to provide runners com- runners perfectly rigid. prising features of construction whereby Cross bars 15 are extended between the 15 they are rigidly braced and strengthened, vertical braces 9 of the rear runners to the front runners so that the sled may be and add rigidity to the construction. rider.

ing drawings, wherein,

vention.

of the same, particularly illustrating the the vertical brace members 9. 30 mechanism whereby the front runners are

steered.

35 mounting the steering pin.

the present invention, which may be of any is secured to the lower end of the pin 27, desirable length and width, and which, near which has its opposite ends projecting slidits opposite ends, has cross plates 2 and 3 ably through the loops 20 of the cross rods secured thereto to strengthen and stiffen the 19 and 19'. With this construction move- 95 same at the points where the sled runners ment of the cross bar 25 rotates the pin 27 are attached.

of the top, in tracking alinement, are the 20 to shift the cross bars 19, 19', and the latforward and rearward runners, 4 and 5, re- ter being pivotally fixed to the runners 4 100 spectively, each of which consists of a single move them in accordance with the movement strip of metal bent to form an upper hori- of the bar to steer the course of the sled. zontal bar 6, a downwardly curved forward The bar 25 is locked in position by means portion 7, and an elongated base or runner of a nut 35, threaded onto the upper end of portion, 8, which extends parallel with the the pin, and at its outer ends the bar has de- 105 bar 6. These are strengthened by brace pending foot rests 36, whereupon a rider may members consisting of bars which are bent, place his feet to steer the runners. By each to form two vertical legs 9, a horizon- removing the nut 35, the steering bar may

tal bar 10, which connects the upper ends of 55 Be it known that I, Sidney S. Griffin, the legs and which is secured to the runner a citizen of the United States, and resident bar 6. Each of the legs has an inturned of the city of Seattle, county of King, and foot 11 which is riveted or otherwise secured

which the following is a specification. each secured to the top by two bolts 12 which This invention relates to improvements are extended downwardly through the top in sleds and more particularly to sleds of 1 and plate 3 and through the upper bars principal objects of the invention being, first, and at their ends have nuts 14 threaded 65

and third, to provide means for controlling strengthen the same against lateral strain 70

guided by either the feet or hands of the The runners of the front set are of substantially the same construction as those of In accomplishing these and other objects the rear set, but are each secured to the top of the invention I have provided improved by a single bolt 18 so that they may be 75 details of construction, the preferred forms swung pivotally to steer the sled. These of which are illustrated in the accompany- runners are held in parallel alinement by means of two cross bars 19 and 19', each of Figure 1 is a perspective view of a sled which has a loop 20 at its center which exconstructed according to the present in- tends in a vertical plane and at its opposite 80 ends has loops 21, which lie in a horizontal Figure 2 is an under side, perspective view plane and extend through apertures 22 in

The steering mechanism consists of a transversely disposed cross bar 25, pro- 85 Figure 3 is a front elevation of the sled. vided with a square aperture at its center Figure 4 is an enlarged, sectional detail, whereby it is mounted upon a squared porillustrating the character, and manner of tion 26 of a pivot pin 27 which is revolubly mounted in bearings 28 and 29 secured to Referring more in detail to the drawings: the upper and lower faces of the top, cen. 90 1 designates the top of a sled, embodying trally at its forward end. A cross bar 30 and the latter moves the lower cross bar 30. Secured to the forward and rearward ends The ends of the latter bar move in the loops

be inverted and the foot rest used as hand thereof, a pair of transverse connecting rods holds so that the sled may be guided by hand.

It is apparent that by this construction, a 5 substantial and rigid construction is provided, the runners are braced against lateral strain, and by movement of the cross bar 25, the front runners will be accordingly actuated to guide the sled.

What I claim as new is:

In a sled of the character described, a sled body, a truck comprising a pair of parallel runners, each runner comprising a top Signed at Seattle, King County, Washingand bottom rail and two vertical, apertured ton, this 5th day of February, 1920. 15 brace members, means pivotally attaching the runners to the body at transverse points

having horizontal loops at their opposite ends extending through the apertures of corresponding vertical brace members and hav- 20 ing vertical loops formed at their centers, a steering pin rotatably mounted and extended vertically through the body, a cross bar fixed at the lower end of said pin having its ends extended slidably through said 25 central loops of the connecting rods and a steering bar fixed on the upper end of the pin and transversely overlying the sled body.

SIDNEY S. GRIFFIN.