

(No Model.)

G. S. ADAMS.
BOB SLEIGH.

No. 503,639.

Patented Aug. 22, 1893.

Fig. 1.

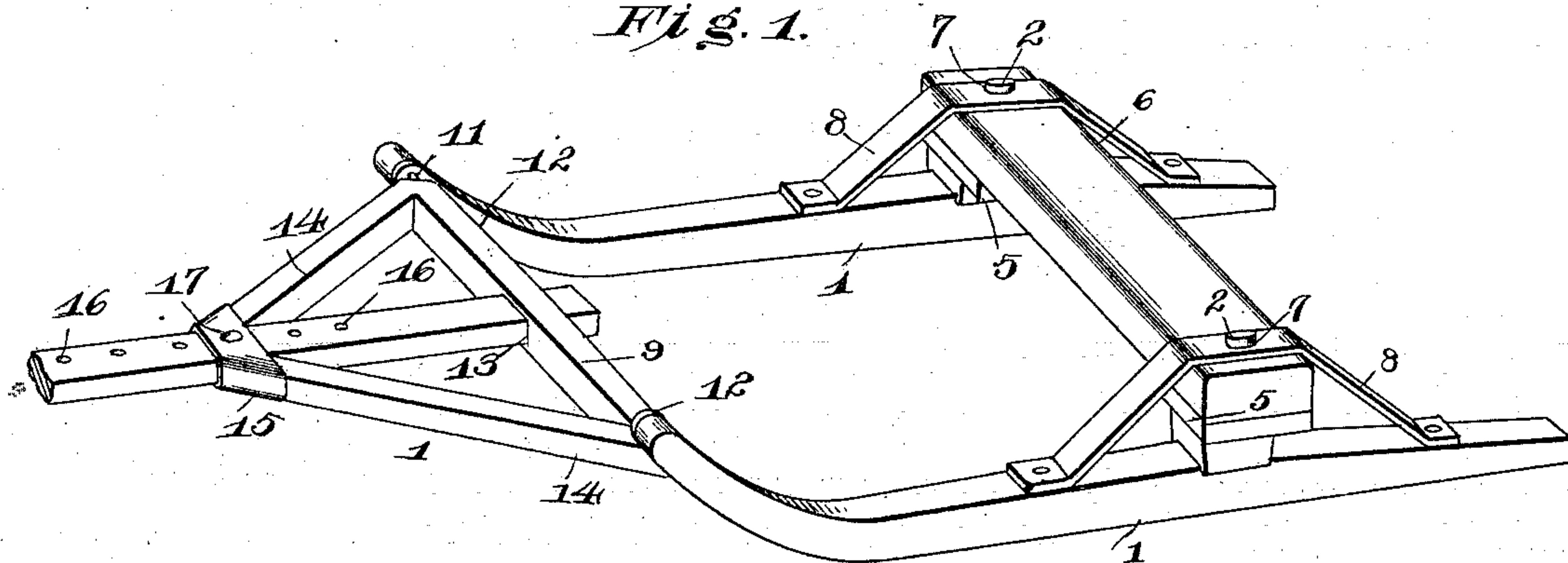


Fig. 2.

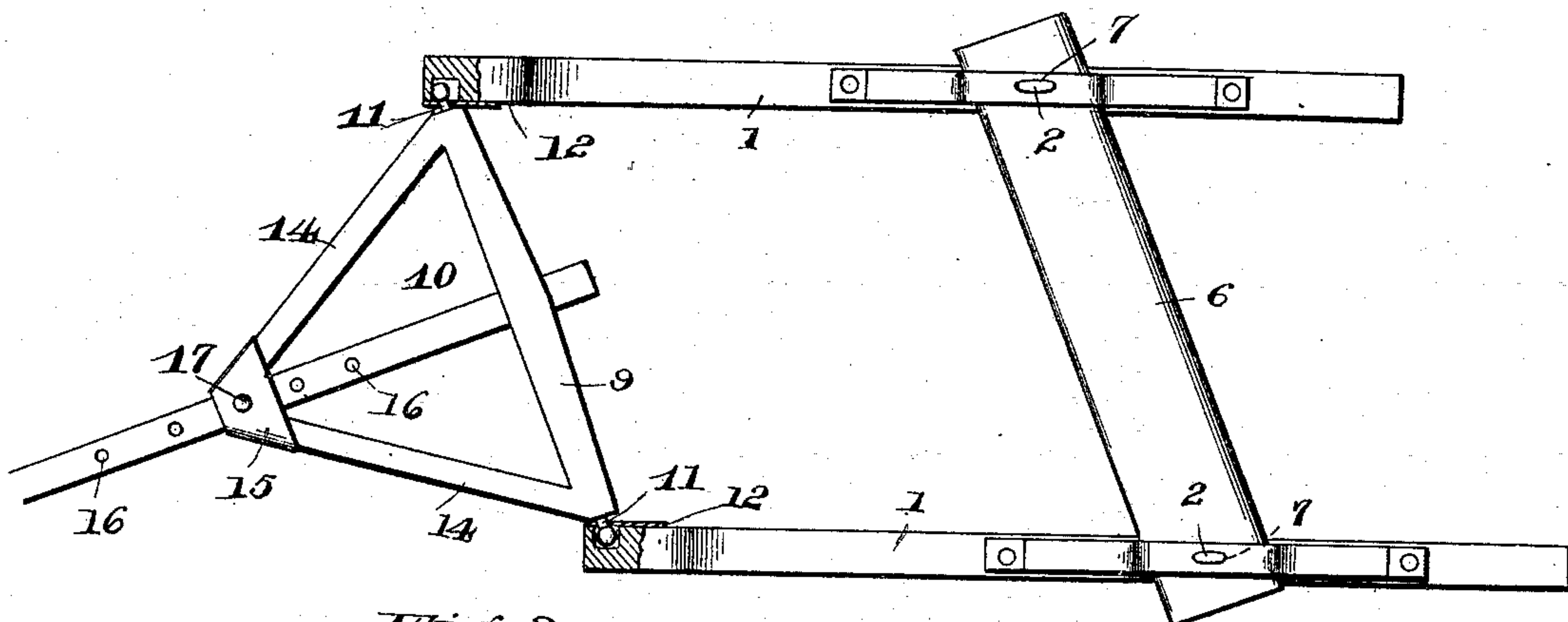


Fig. 3.

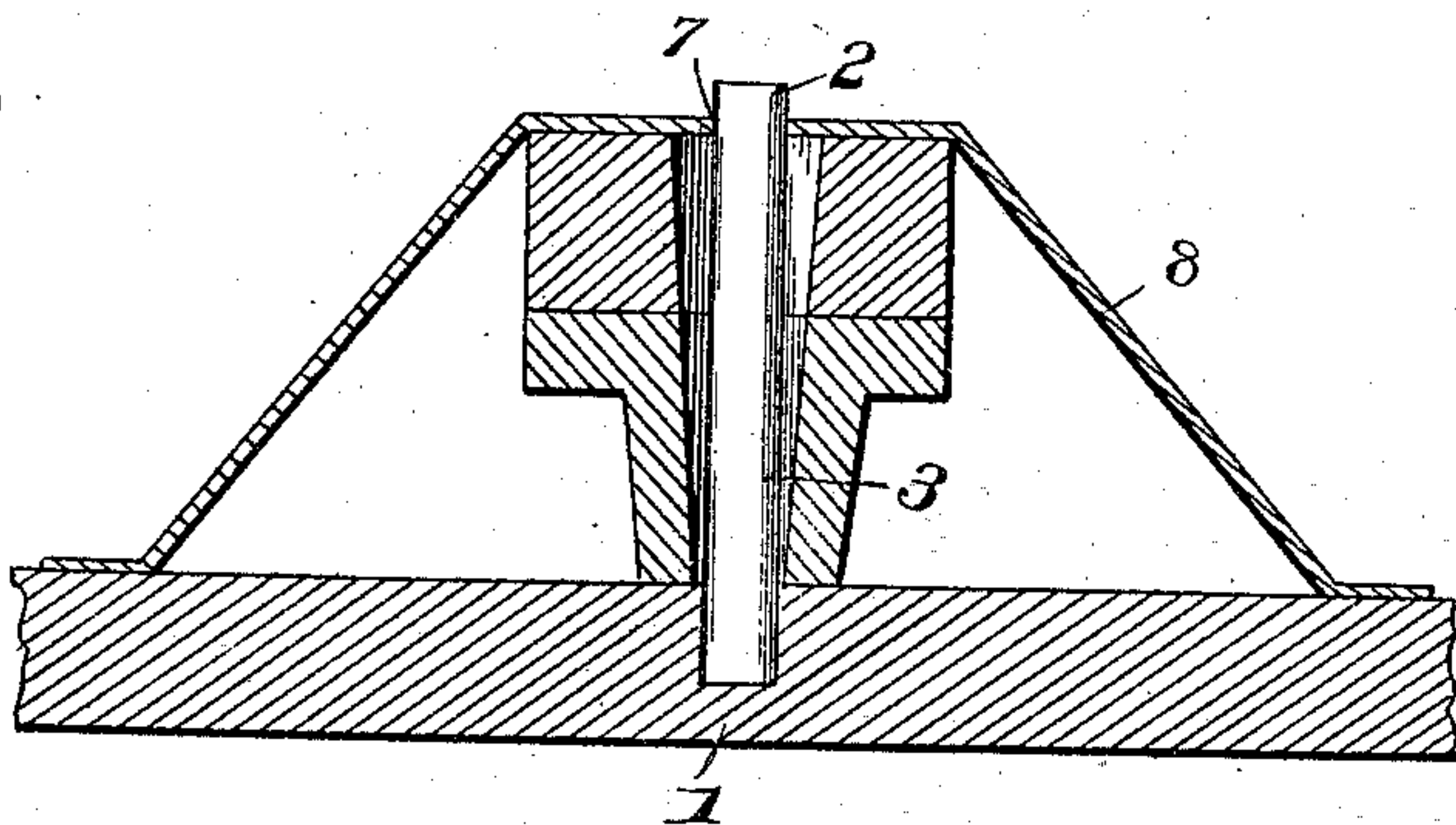
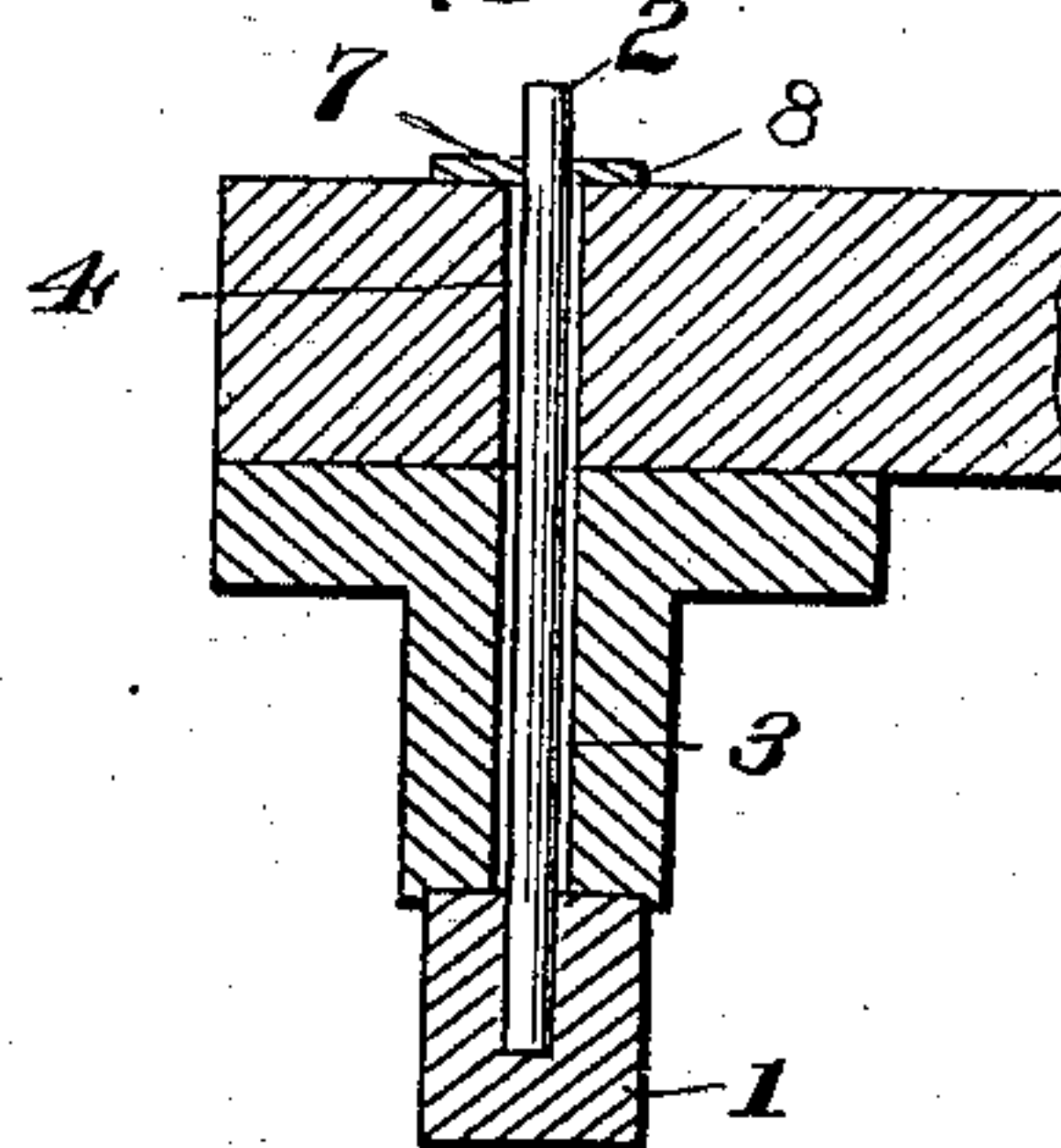


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE SCOTT ADAMS, OF RED LODGE, MONTANA.

BOB-SLEIGH.

SPECIFICATION forming part of Letters Patent No. 503,639, dated August 22, 1893.

Application filed March 11, 1893. Serial No. 465,561. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SCOTT ADAMS, a citizen of the United States, residing at Red Lodge, in the county of Park and State of Montana, have invented a new and useful Bob-Sleigh, of which the following is a specification.

The invention relates to improvements in bob sleighs.

The object of the present invention is to simplify and improve the construction of bob sleighs, and to provide a flexible sled bob, capable of readily running over stumps, rocks and the like without injury to it.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a sled bob constructed in accordance with this invention. Fig. 2 is a plan view partly in section, showing the runners turned aside. Fig. 3 is a detail vertical sectional view. Fig. 4 is a transverse sectional view of one side of the bob.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1—1 designate runners provided intermediate of their ends with vertical rods 2, which are arranged in vertical openings 3 and 4 of knees 5 and a transverse beam 6. The upper ends of the rods 4 are arranged in openings 7 of braces 8; and the openings of the beam and knees are of sufficient width and length to permit the knees and transverse beam to rock and to turn on the rods, which serve as pivots. The knees are constructed of suitable metal and each brace consists of a horizontal portion and inclined portions, which form an arch like support. The front ends of the runners are connected by a ball and socket joint to each end of the cross-bar 9 of a tongue 10. The ball and socket joint consists of a pin 11 extending from the cross-bar 9 and provided with a head, and a plate 12 secured to the inner face of the runner and provided with an opening to receive the pin,

the head being arranged between the plate and the runner. The cross-bar 9 is provided with an opening 13 to receive the tongue and has secured to its ends inclined bars or hounds 14 which have their ends, which are adjacent connected by a socket 15. The divergent bars or hounds form with the cross-bar 9 a triangular frame, in which the tongue is adjustably mounted. The tongue is provided with a series of perforations 16, and is secured in its adjustment by a pin 17, which passes through the socket 15 and engages one of the perforations 16.

It will be seen that the sled bob is simple and comparatively inexpensive in construction, that it is capable of permitting a rocking motion, and that it is adapted to permit a laterally swinging motion, whereby the sled bob is adapted to pass freely over stumps, stones and similar obstructions.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle, or sacrificing any of the advantages of this invention.

What I claim is—

1. In a bob-sled, the combination of runners, a tongue having a cross-piece connected at the ends by ball and socket joints with the runners, and knees mounted on the runners and having a forward and backward rocking movement and a sidewise movement, substantially as described.

2. In a bob-sled, the combination of runners provided with vertical rods, a transverse beam provided with openings receiving the rods, knees supporting the beam and having openings to receive the rods, the openings of the beam and knees being sufficiently large to permit a rocking and a laterally swinging motion, a tongue having a cross-bar connected at the ends by ball and socket joints with the runners, and arched braces extending over the transverse beam and secured to the runners, substantially as described.

3. In a bob-sled, the combination of runners, knees mounted on the runners and having a rocking and a laterally swinging motion, a tongue, a cross-bar connected with the

tongue and provided with projecting pins
terminating in heads, and plates secured to
the runners and having openings receiving
the pins, the heads of the latter being ar-
5 ranged between the plates and the runners,
whereby ball and socket joints are provided,
substantially as described.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

GEORGE SCOTT ADAMS.

Witnesses:

BYRON ST. CLAIR,
T. C. ROSS.