No. 847,954. PATENTED MAR. 19, 1907.

H. A. LE BARON.

SLEIGH.

APPLICATION FILED JAN. 31, 1906.

2 SHEETS—SHEET 1.

Fig. 1,

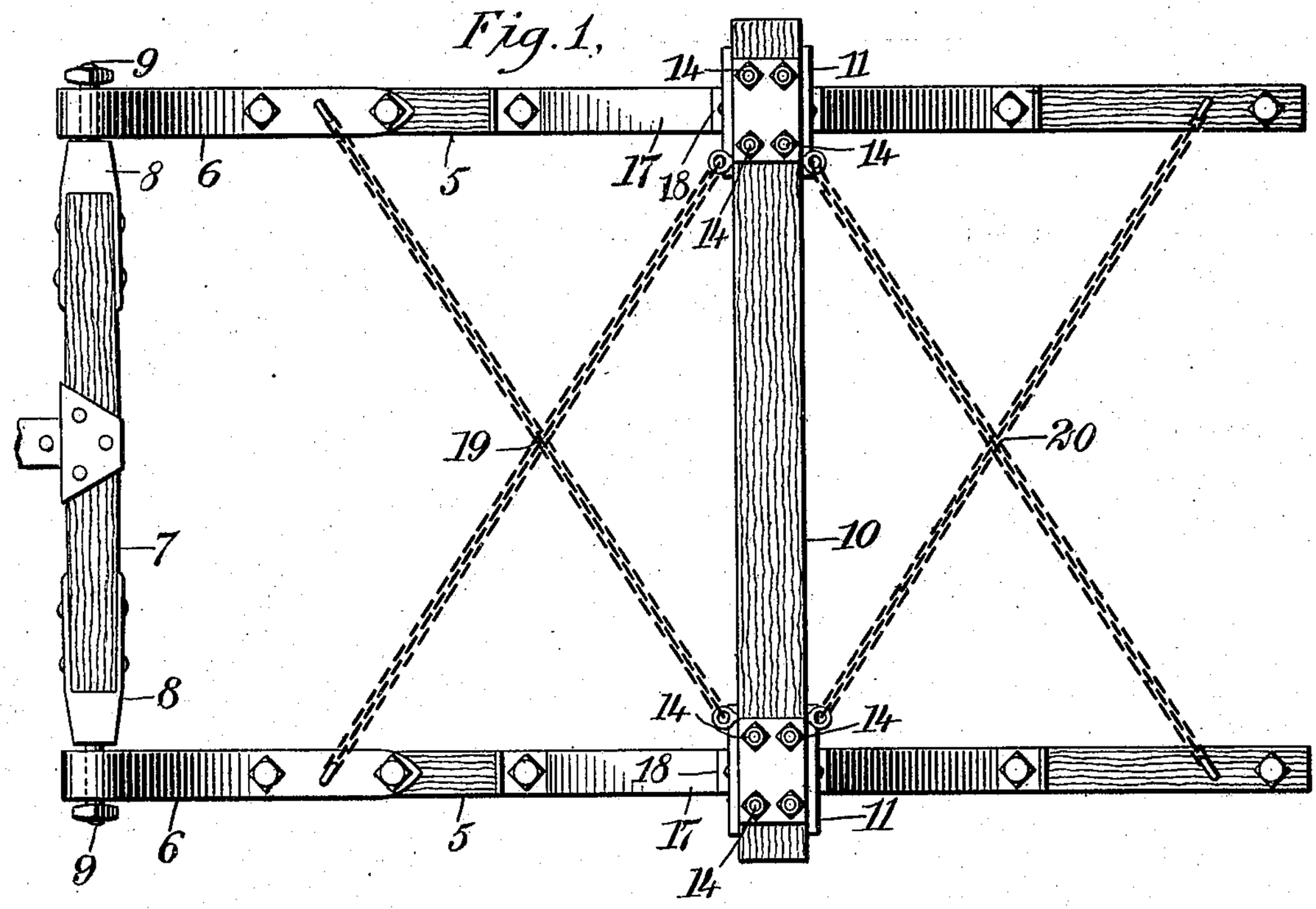
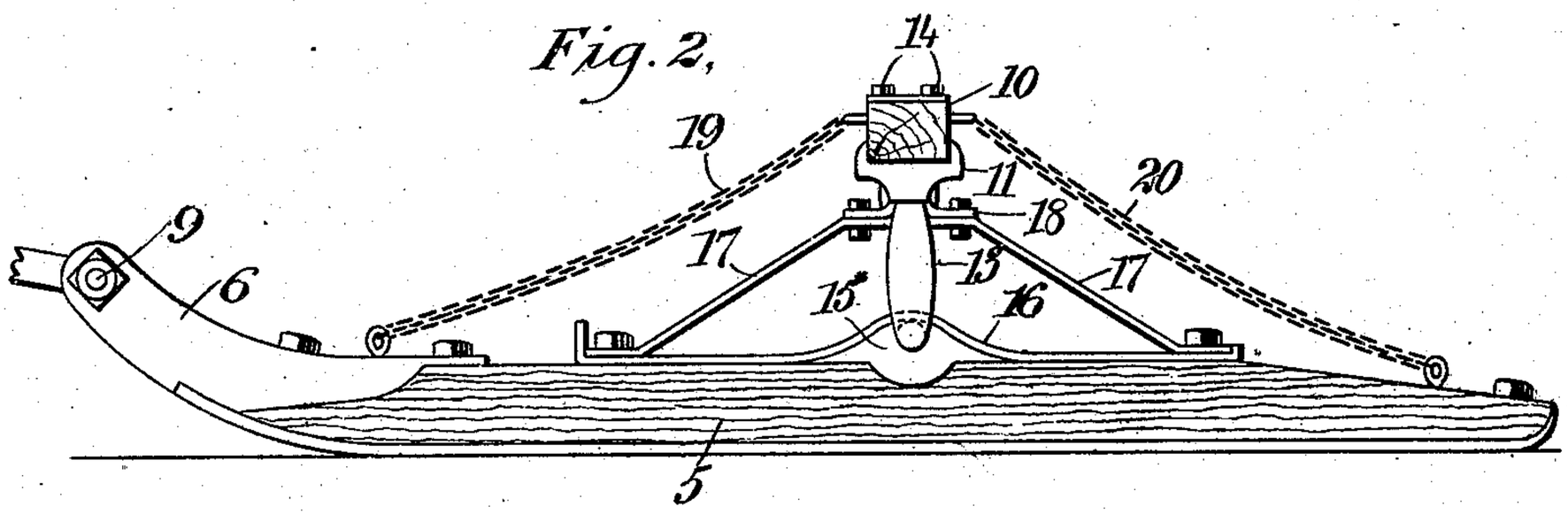


Fig. 2,



WITNESSES:

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2 SHEETS—SHEET 2.

Fig. 3,

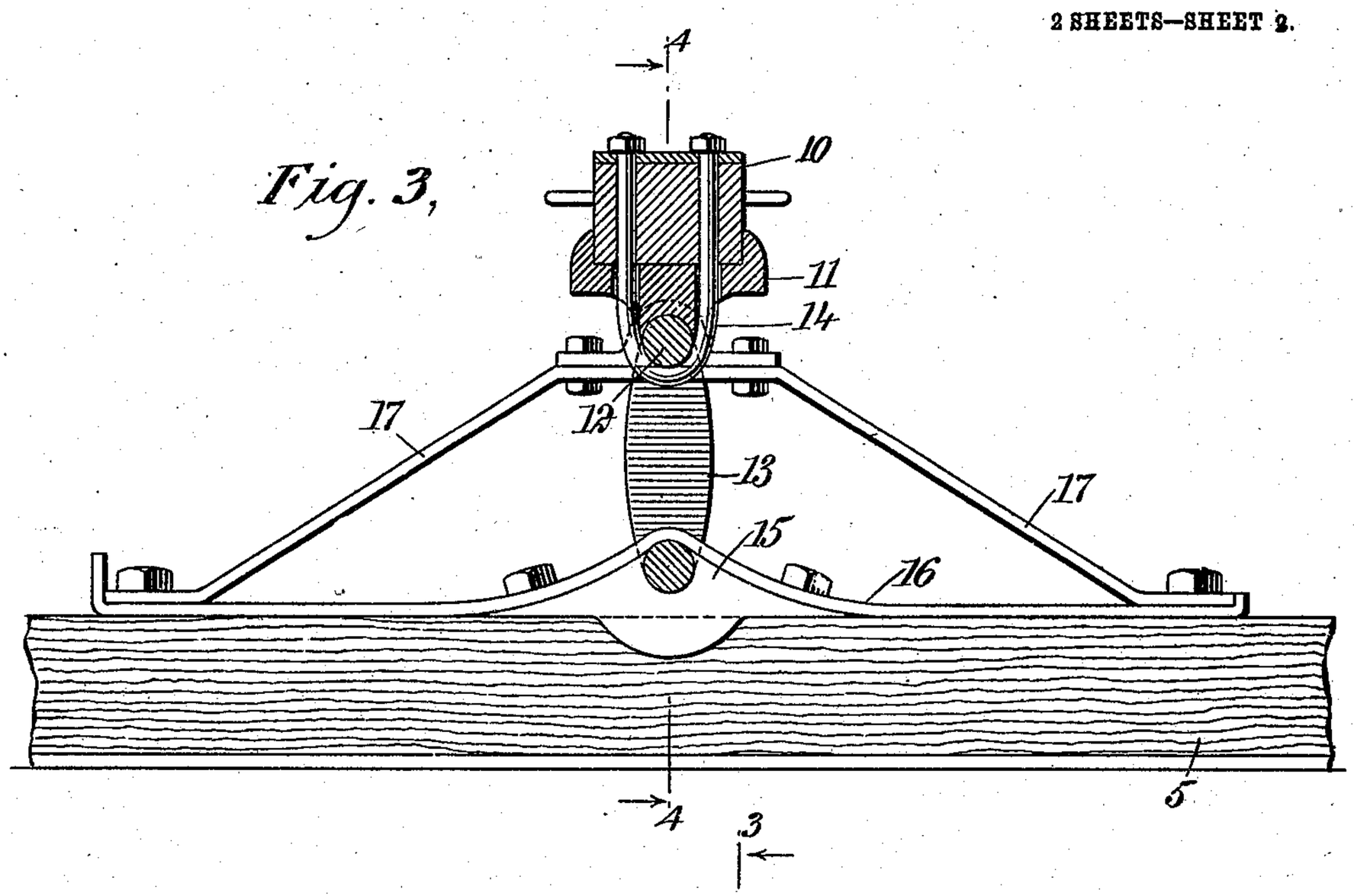


Fig. 4,

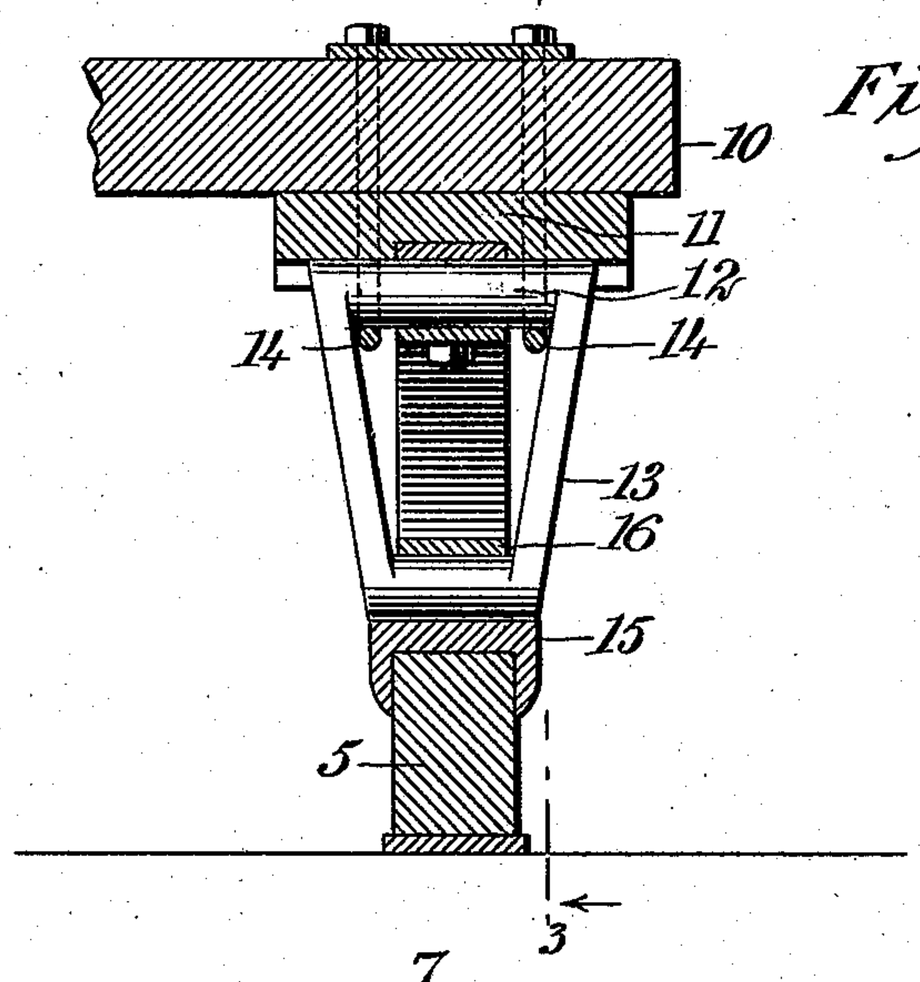
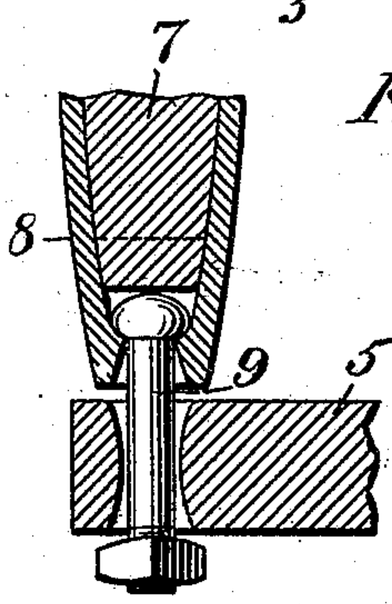


Fig. 5.



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UNITED STATES PATENT OFFICE.

HERBERT A. LE BARON, OF RIDLONVILLE, MAINE.

SLEIGH.

No. 847,954. Specification of Letters Patent. Patented March 19, 1907.

Application filed January 31, 1906. Serial No. 298,888.

To all whom it may concern:

Be it known that I, HERBERT A. LE BARON, a citizen of the United States, and a resident of Ridlonville, in the county of Oxford and State of Maine, have invented a new and Improved Sleigh, of which the following is a full, clear, and exact description.

This invention relates to improvements in bob-sleighs, the object being to provide a sleigh that will be light, but strong, and so constructed that the runners will have a yielding or swinging movement relatively to the body, thus preventing to a great extent strain or possible disturbing of the load in the vehicle when the runner strikes or passes over an obstruction.

I will describe a sleigh embodying my invention and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan of a sleigh embodying my invention. Fig. 2 is a side elevation thereof. Fig. 3 is a section on the line 3 3 of Fig. 4. Fig. 4 is a section on the line 4 4 of Fig. 3, and Fig. 5 is a sectional detail illustrating the pole-bar connection.

Referring to the drawings, 5 designates the runners, the front ends of which are curved upward, and on these front ends are metal boxings 6, which will prevent the possible breaking of the runners. The pole-bar 7 has metal socket members 8 secured to its ends, and having a universal-joint connection with said socket members are bolts 9, which pass through openings in the forward ends of the runners. By thus connecting the forward ends of the runners they may have swinging movement one relatively to the other.

Arranged between the ends of the runners is a cross-bar 10, which is seated in plates 11, the said plates having flange portions for engaging against the front and rear sides of the cross-bar, as clearly indicated in Fig. 3. The lower sides of the plates 11 are concaved to receive the upper cross-bars 12 of the knees 13, which are of suitable metal and of frame-like form.

Substantially U-shaped clip-bolts 14 pass through the cross-bar 10 and through the plates 11 and around the under sides of the cross-bars 12 of the knees, and therefore a swinging or hinge connection is formed between the knees and said plates 11. The lower portions of the knees are connected to metal blocks 15, secured to the runners, and also secured to the upper sides of the runners and passing over the said lower portions of the knees are metal plates 16. Brace-bars 17 extend forward and rearward from the upper portions of the knees, and the said brace-bars are secured to the top portion of the knees by means of clip-plates 18.

The cross-bar 10 is held in position, but permitted a swinging motion, by means of front crossed chains 19, connected at one end to said bar and at the other end to the runners, and rear crossed chains 20, connected to said bar and also to the runners.

By the construction of the parts 16 and 17 there is a considerable bearing area on the runner and the parts are materially strengthened.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A sleigh comprising runners, a cross-bar, plates secured to said cross-bar, and concaved on the under side, knees having top bars engaging in the concaves, clips extended from the plates around the lower portions of the said top bars, whereby the cross-bar may swing on the knees, braces extended from said top bars to the runners, metal blocks on the runners, with which the lower portions of the knees engage, and straps secured to the runners, the said straps passing over the blocks and over the lower portions of the knees.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT A. LE BARON.

Witnesses:

ARETAS E. STEARNS,

SADIE L. BISBEE.