

McCLELLLEN D. WOLF.
HAMMOCK SUPPORTING FRAME.
APPLICATION FILED MAR. 23, 1909.

935,445.

Patented Sept. 28, 1909.

2 SHEETS—SHEET 1.

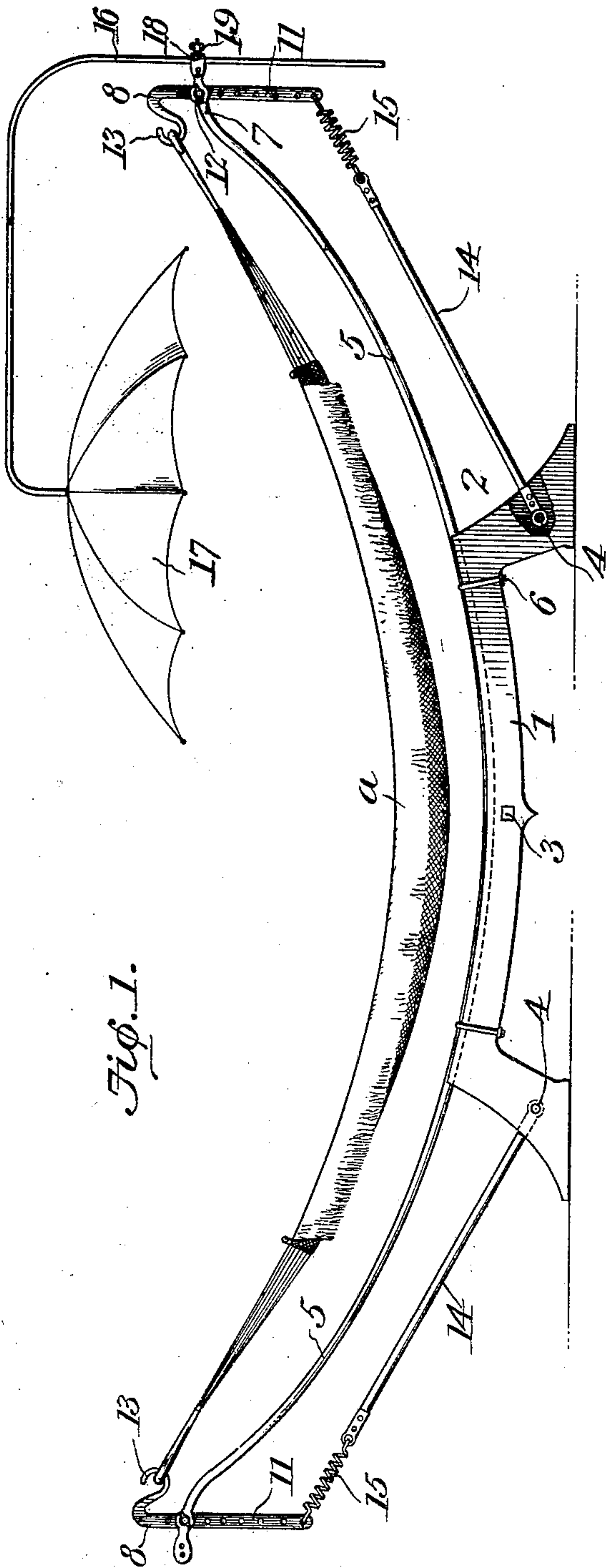


Fig. 1.

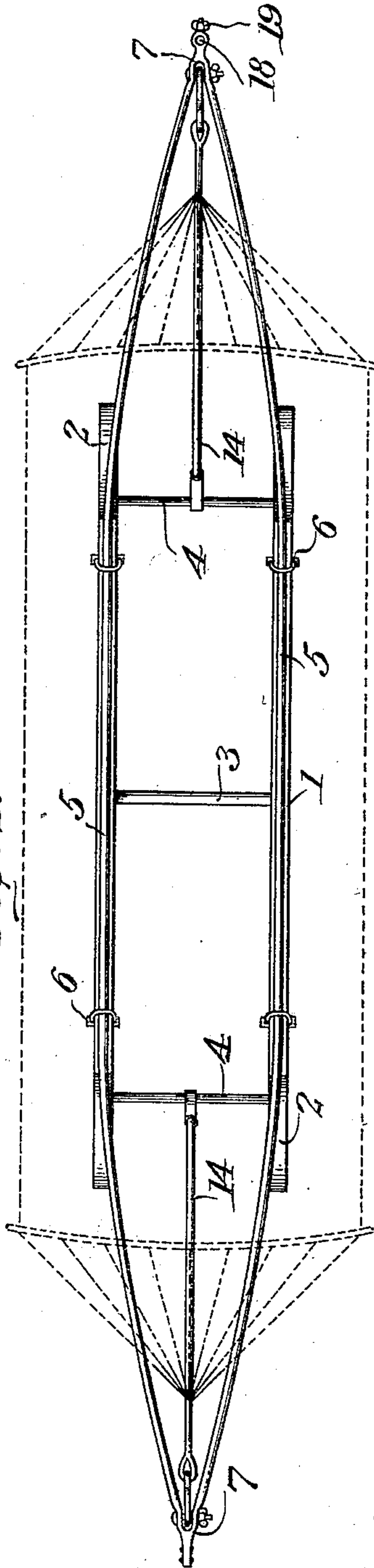


Fig. 2.

Witnesses
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2 SHEETS—SHEET 2.

Fig. 3.

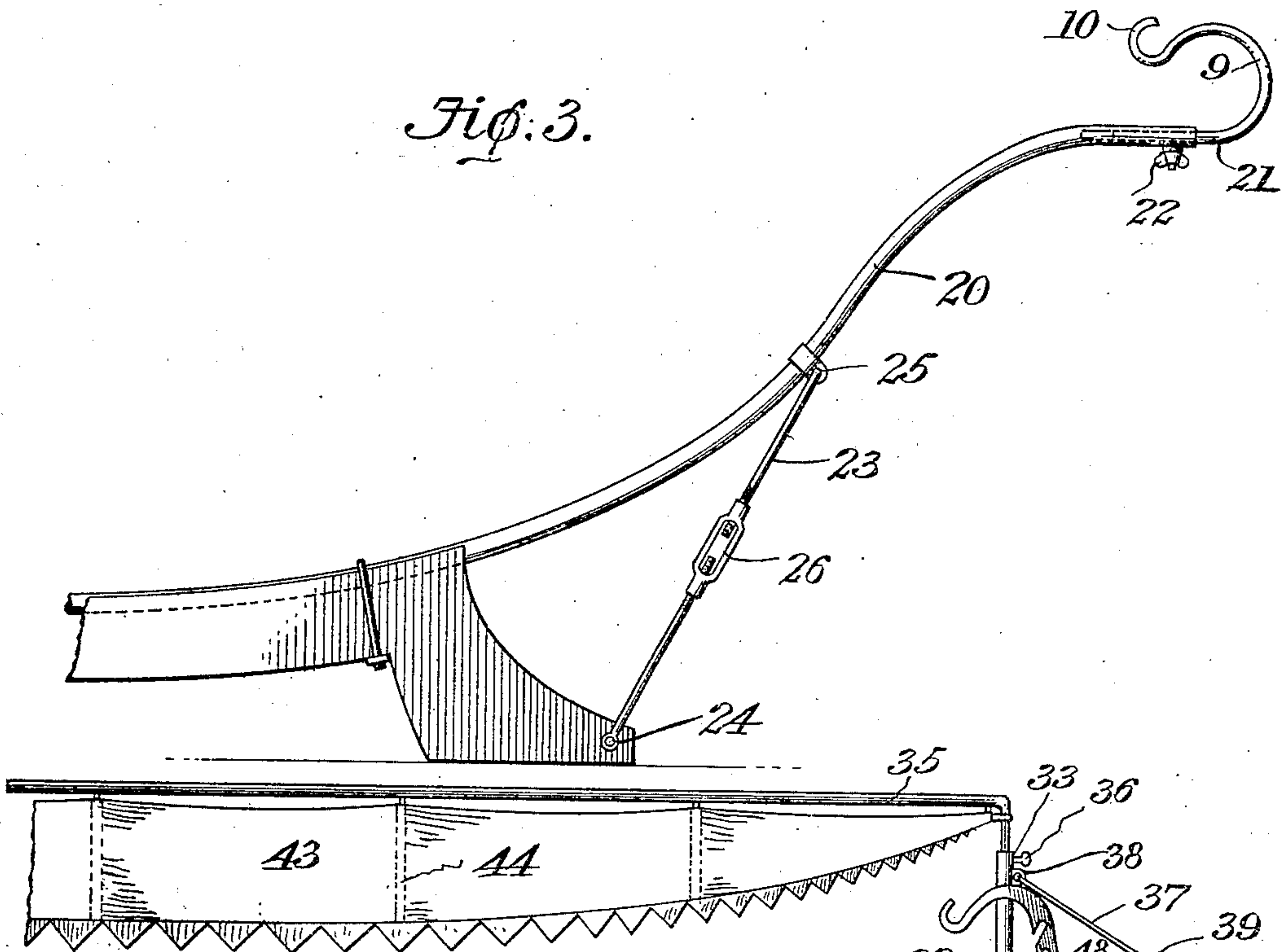


Fig. 4.

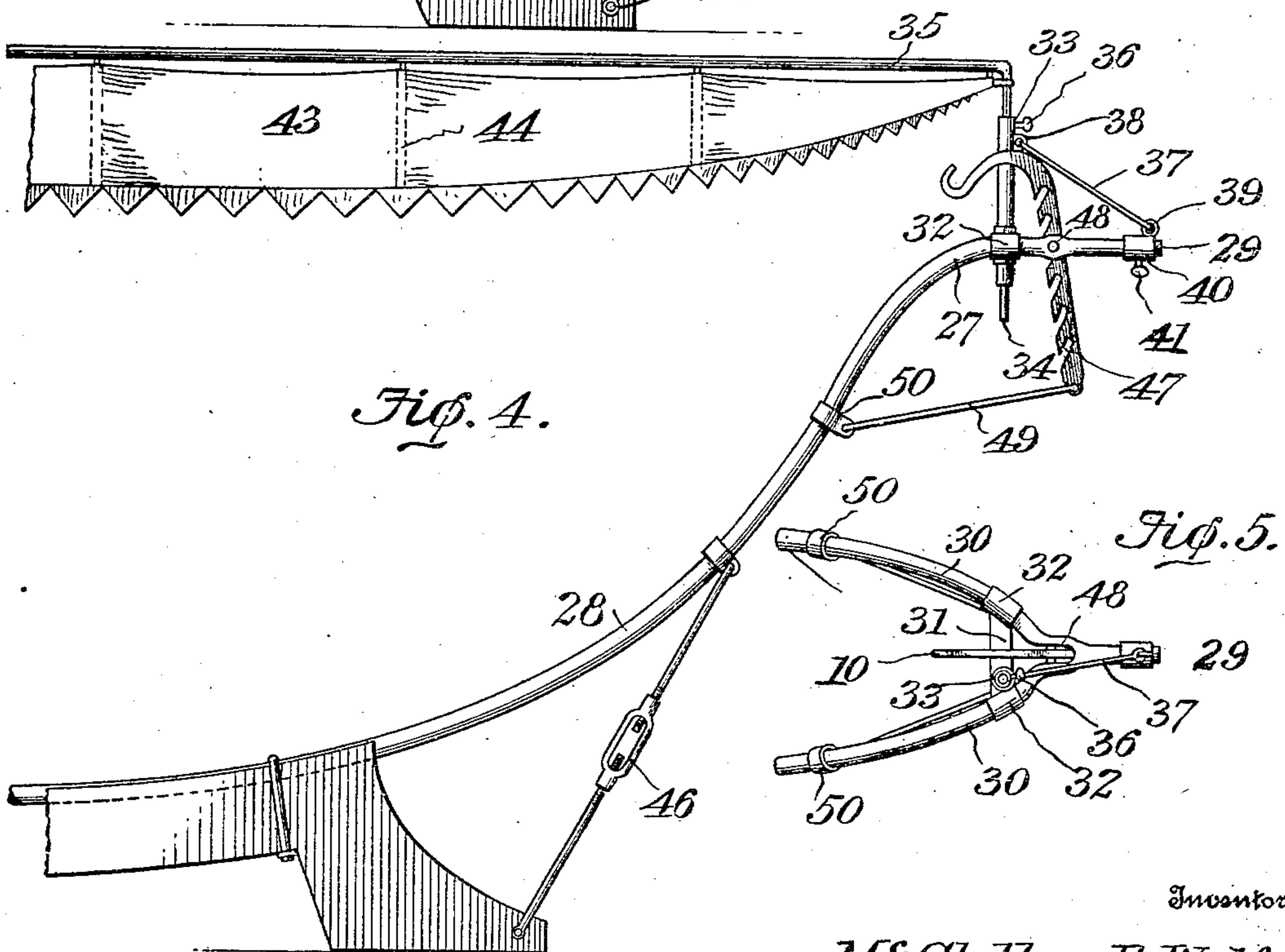


Fig. 5.

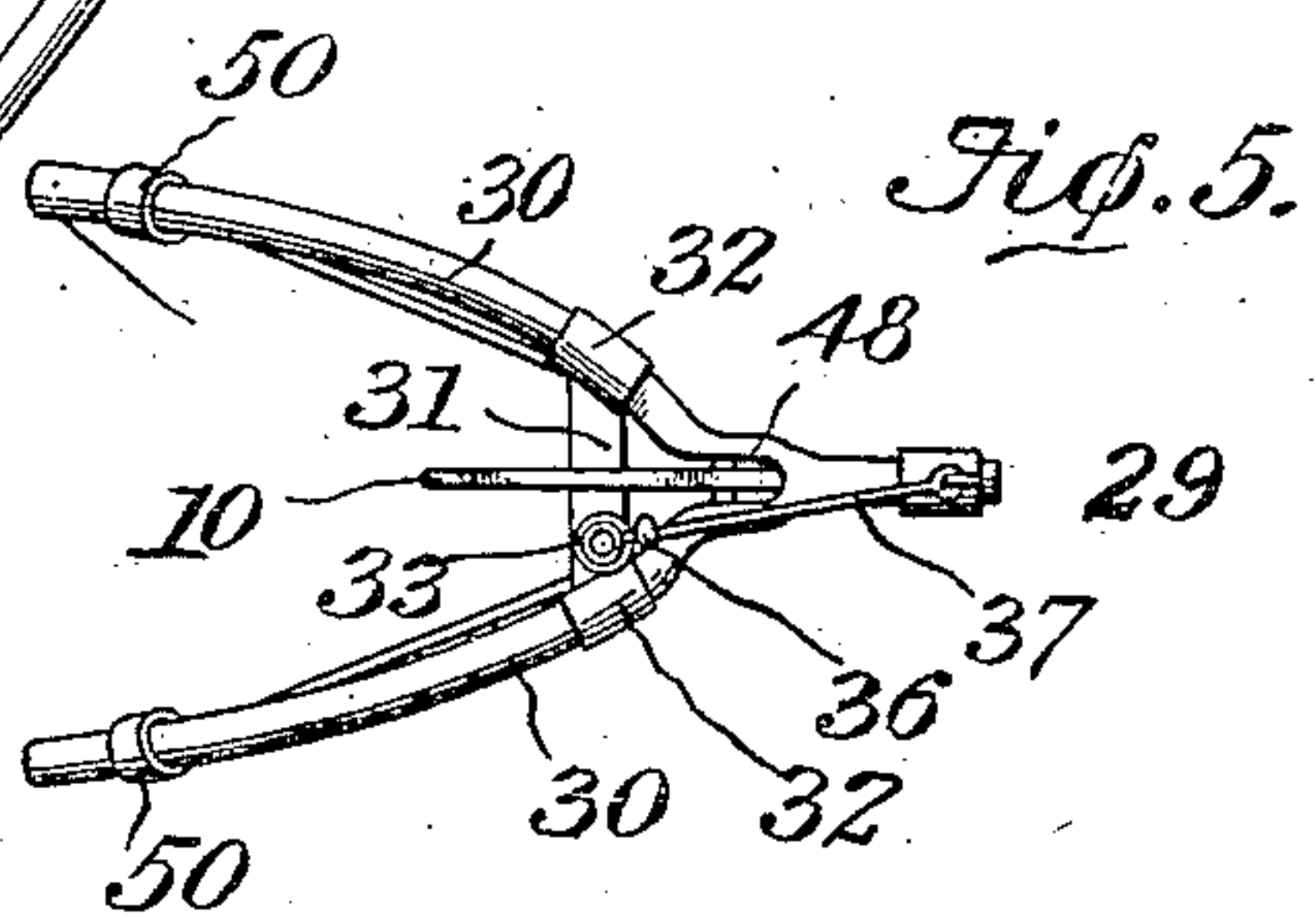
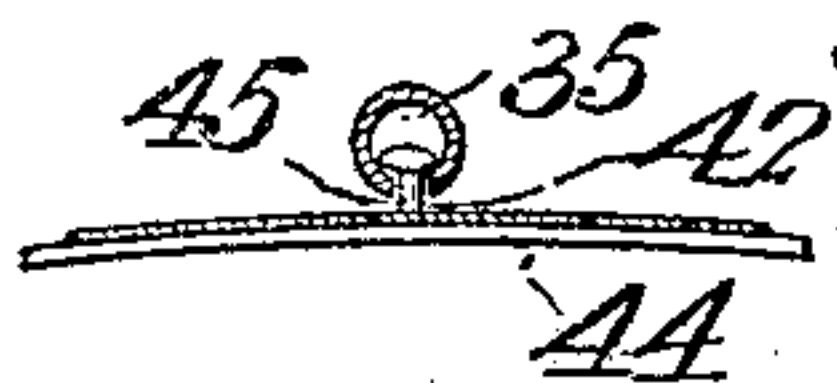


Fig. 6.



Witnesses

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HAMMOCK-SUPPORTING FRAME.

935,445.

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Application filed March 23, 1909. Serial No. 485,296.

To all whom it may concern:

Be it known that I, McCLELLEN D. WOLF, a citizen of the United States, residing at Brookville, in the county of Montgomery and State of Ohio, have invented new and useful Improvements in Hammock-Supporting Frames, of which the following is a specification.

This invention is an improved hammock supporting frame and consists in the construction, combination and arrangement of devices hereinafter described and claimed.

One object of the invention is to provide an improved hammock supporting frame which embodies a base having side members and arched elastic bars secured at their central portions on the said side members and having their ends connected together, said bars constituting an elastic support for the hammock stretched between the ends thereof.

A further object is to provide an improved hammock supporting frame embodying yieldably mounted hammock supporting hooks to render the motion of the hammock easy and agreeable.

A further object is to effect improvements in the construction of the frame whereby the same while rendered elastic so that it will yield readily to the movements of the hammock is also securely braced and affords maximum strength.

A further object is to provide improved means for securing the sunshade to the hammock frame for vertical adjustment so that the sun-shade may be raised or lowered as required.

A further object is to provide improved means for supporting a canopy and enabling the latter to be readily folded.

In the accompanying drawings:—Figure 1 is an elevation of a hammock supporting frame constructed in accordance with my invention. Fig. 2 is a plan of the same. Fig. 3 is a partial end elevation showing a modified construction. Fig. 4 is a similar view showing another modified construction. Fig. 5 is a detail plan of one of the forks connecting the ends of the arch bars. Fig. 6 is a detail sectional view of the canopy.

In accordance with my invention, I provide a base 1 which embodies a pair of side members 2 and cross bars 3, 4, which connect them together, said cross bars 3 being centrally located and said cross bars 4 being located near the ends of said side members.

The ends of the side members incline outwardly and the upper sides thereof are concaved or bowed longitudinally as shown. In connection with the said side members of the base, I employ a pair of arched or bowed elastic bars 5 which in practice are preferably made of wire or other suitable pipe. Said elastic bars are bent as shown and their lower, central portions bear on the concave or hollow upper edges of the said members, 2, of the base and are secured thereto by means of clips or clip bolts 6. The said bars are connected together at their ends by forks 7, said forks extending outwardly in opposite directions from the ends of said elastic bars. These forks carry hammock supporting devices which in the embodiment of the invention shown in Fig. 1 are hook bars 8; in the embodiment of the invention shown in Fig. 3 are longitudinal adjustable hooks 9 and in the embodiment of the invention shown in Fig. 4 are hook bars 10. The hook bars 8 are provided nearly from end to end with series of adjusting openings 11. Pivot bolts 12 are mounted in the forks 7 and engage and extend through appropriate adjusting openings in the hook bars so that the latter may be pivotally mounted in the forks at any desired distance from the upper ends of said hook bars, said hook bars having hooks 13 at their upper ends extending inwardly therefrom. Tension rods 14 have their inner ends pivotally mounted on the cross bars 4 and their outer ends connected by tension springs 15 to the lower ends of the hook bars. The hammock indicated at *a* is attached to and suspended between the hooks of the hook bars 8 and it will be understood that owing to the elasticity of the bars 5 and the fact that the hook bars are permitted by the tension springs to yield somewhat, the hammock is caused to move very easily and smoothly and produces the most agreeable sensations.

Referring particularly to the embodiment of the invention shown in Fig. 1, one of the forks 7 is provided with a vertical opening through which extends the vertical portion of a rod 16 which supports the sun-shade 17. The end of the said fork, being open for the reception of the sun-shade supporting rod, forms an eye 18 and the same is provided with a set screw 19 to clamp the rod 14 and hence support the latter and the sun-shade at any desired vertical adjustment.

In the form of the invention shown in

Fig. 3 each yoke connecting the ends of the elastic arch bars 20 is provided with a longitudinal opening for the reception of a straight arm 21 at the lower side of the hook 9, said arm being longitudinally movable in said opening so that the said hooks may be moved toward and from each other and the said yoke is provided with a set screw 22 to secure the hook in any desired adjusted position. In order to strengthen the elastic arch bars 20 in this form of the invention, I provide brace rods 23 the lower ends of which are connected to the ends of the side members of the base as at 24 and the upper ends of which are connected by clips 25 to said elastic bars 20. Each of the said brace rods is composed of two sections reversely screw threaded and connected together by a turn-buckle 26 whereby said brace rods are longitudinally adjustable and may be set to apply any desired degree of tension to the elastic hammock supporting arch bar.

In the form of the invention shown in Fig. 4 each fork 27 which connects the ends of the elastic hammock supporting arch bars 28 is provided with an outstanding longitudinal arm 29. The side arms 30 of the fork are connected together by a cross bar 31 which has collars 32 fitted on said side arms and the said cross bar is provided with a vertical tubular standard 33 for the reception of one of the down-turned ends 34 of a canopy stretcher rod 35 and is further provided with a set screw 36 to secure said canopy stretcher rod at any desired vertical adjustment. Said tubular standard is braced by an inclined brace rod 37, the upper end of which is pivotally connected thereto as at 38 and the lower end of which is pivotally connected as at 39 to a collar or sleeve 40 which is fitted on the arm 29 for longitudinal adjustment and is provided with a set screw 41 whereby it may be secured in an adjusted position.

That portion of the canopy supporting rod which is between the down-turned ends thereof is tubular as shown in detail in Fig. 6 and is provided in its under side with a longitudinal slot 42. The canopy 43, which constitutes the sun-shade in this form of my invention, is provided with ribs 44 which are connected by means of headed studs 45 to the tubular portion of the canopy stretcher and supporting rod, the shanks of the said studs extending through and working in the slot 42 and the heads thereof being disposed within said tubular rod. Hence the canopy may be folded compactly from either end by moving it endwise so as to cause all of its ribs to lie closely together.

In the form of the invention shown in Fig. 4 the elastic supporting arch bars 28 are provided with adjustable brake rods 46 identical in construction with those shown in

Fig. 3. The hook bars 10 which support the hammock (not shown in this figure) are provided on their inner sides with downwardly inclined notches 47 any one of which may be engaged on the bolt or pin 48 which connects the sides of the fork and hence said hook bar may be disposed at any desired vertical adjustment. The lower end of such hook bar has rods 49 pivotally connected thereto, which rods are also pivotally connected to clips 50 which are secured on the elastic bars 28 near the ends of the latter.

What is claimed is:—

1. A hammock supporting frame comprising a base having side members, elastic arch bars having their central portion secured on the upper edges of said side portions and having their end portions extending upwardly and outwardly therefrom and forks connecting the ends of said arch bars together.

2. A hammock supporting frame comprising a base having side members, elastic arch bars having their central portions secured on the upper edges of said side portions and having their end portions extending upwardly and outwardly therefrom and forks connecting the ends of said arch bars together, and hammock supporting devices attached to said forks.

3. A hammock supporting frame comprising a base having side members, elastic arch bars having their central portions secured on the upper edges of said side portions and having their end portions extending upwardly and outwardly therefrom and forks connecting the ends of said arch bars together, and hammock supporting devices attached to said forks for movement toward and from each other.

4. A hammock supporting frame comprising a base portion, bowed or arched elastic supporting bars having their central portions secured on said base portion and their ends extending upwardly and outwardly therefrom, forks connecting the ends of said elastic supporting bars together and hammock supporting devices connected to the forks and adjustable toward and from each other.

5. A hammock supporting frame comprising a base portion, bowed or arched elastic supporting bars having their central portions secured on said base portion and their ends extending upwardly and outwardly therefrom, forks connecting the ends of said elastic supporting bars together and hammock supporting devices connected to the forks and adjustable toward and from each other and mounted for yieldable movement.

6. A hammock supporting frame having arch supporting bars, forks connecting the ends of said supporting bars together and hammock supporting devices connected to

the forks, adjustable toward and from each other and also adjustable vertically and mounted for yieldable movement.

5 7. A hammock supporting frame having arch supporting bars, forks connecting the ends of said supporting bars together, hammock supporting devices pivotally connected to said forks, having hammock engaging

means at their upper ends and springs connected to their lower ends.

In testimony whereof I affix my signature 10
in presence of two witnesses.

McCLELLEN D. WOLF.

Witnesses:

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NORVAL MILLER.