

No. 864,809.

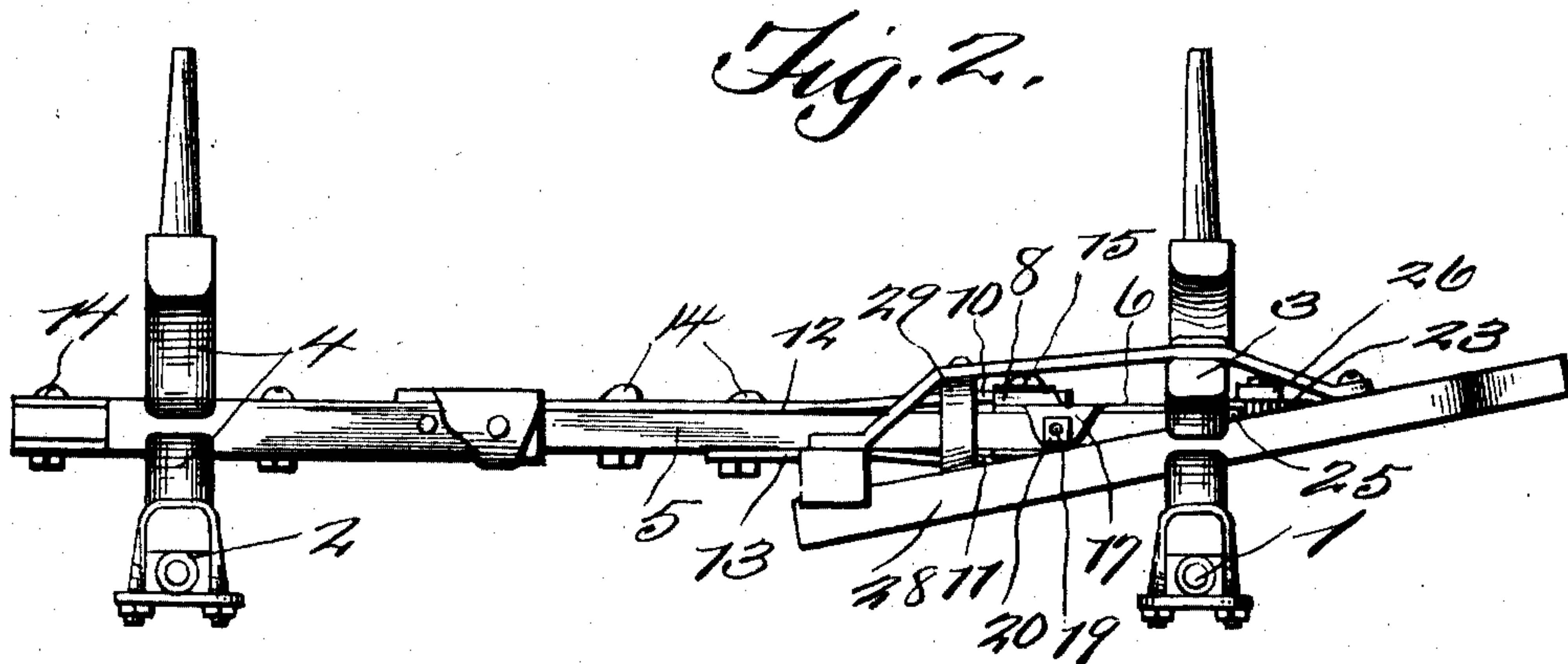
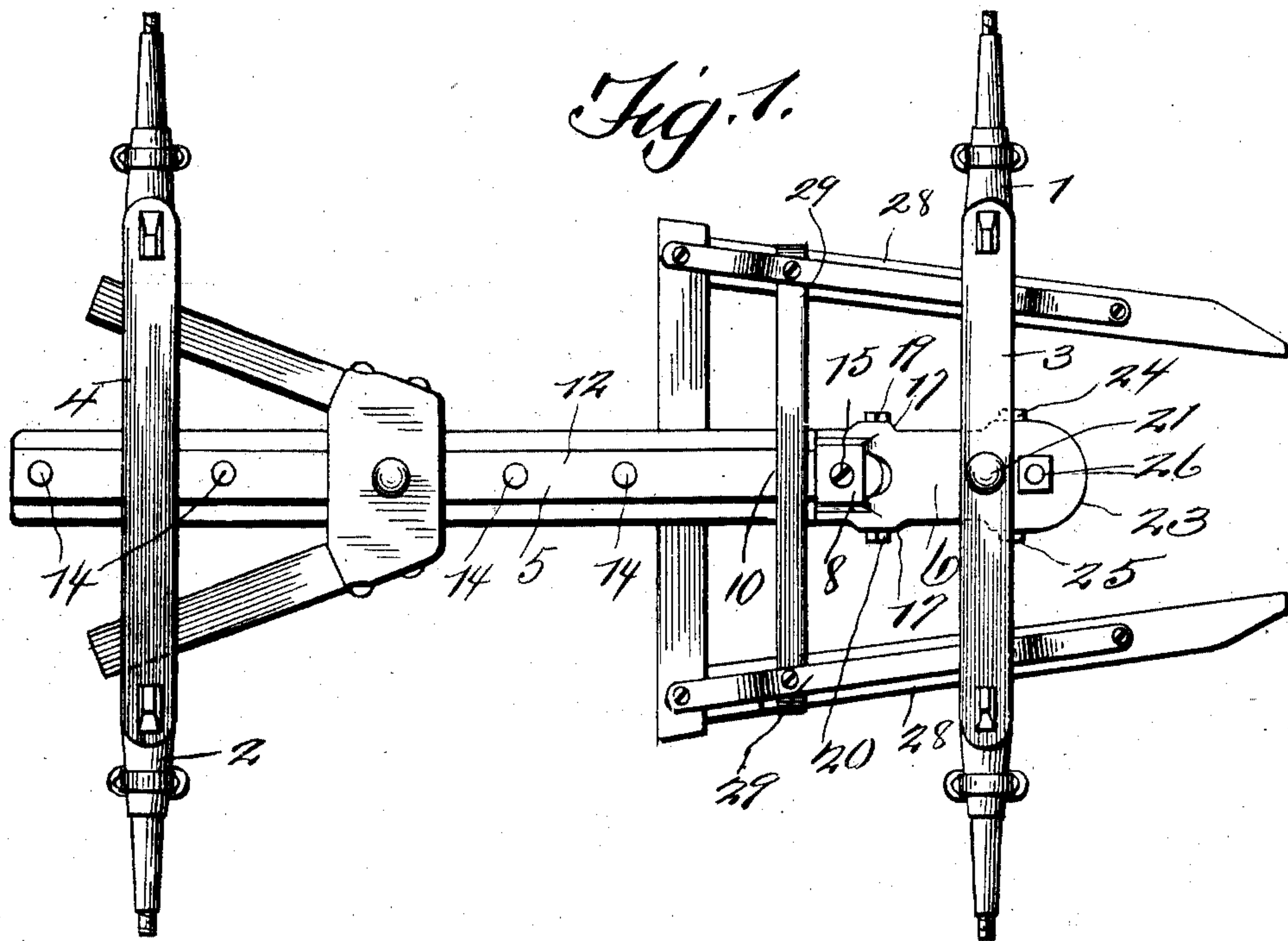
H. B. STUDEBAKER.

PATENTED SEPT. 3, 1907.

RUNNING GEAR.

APPLICATION FILED APR. 26, 1907.

2 SHEETS—SHEET 1.



Inventor

Witnesses

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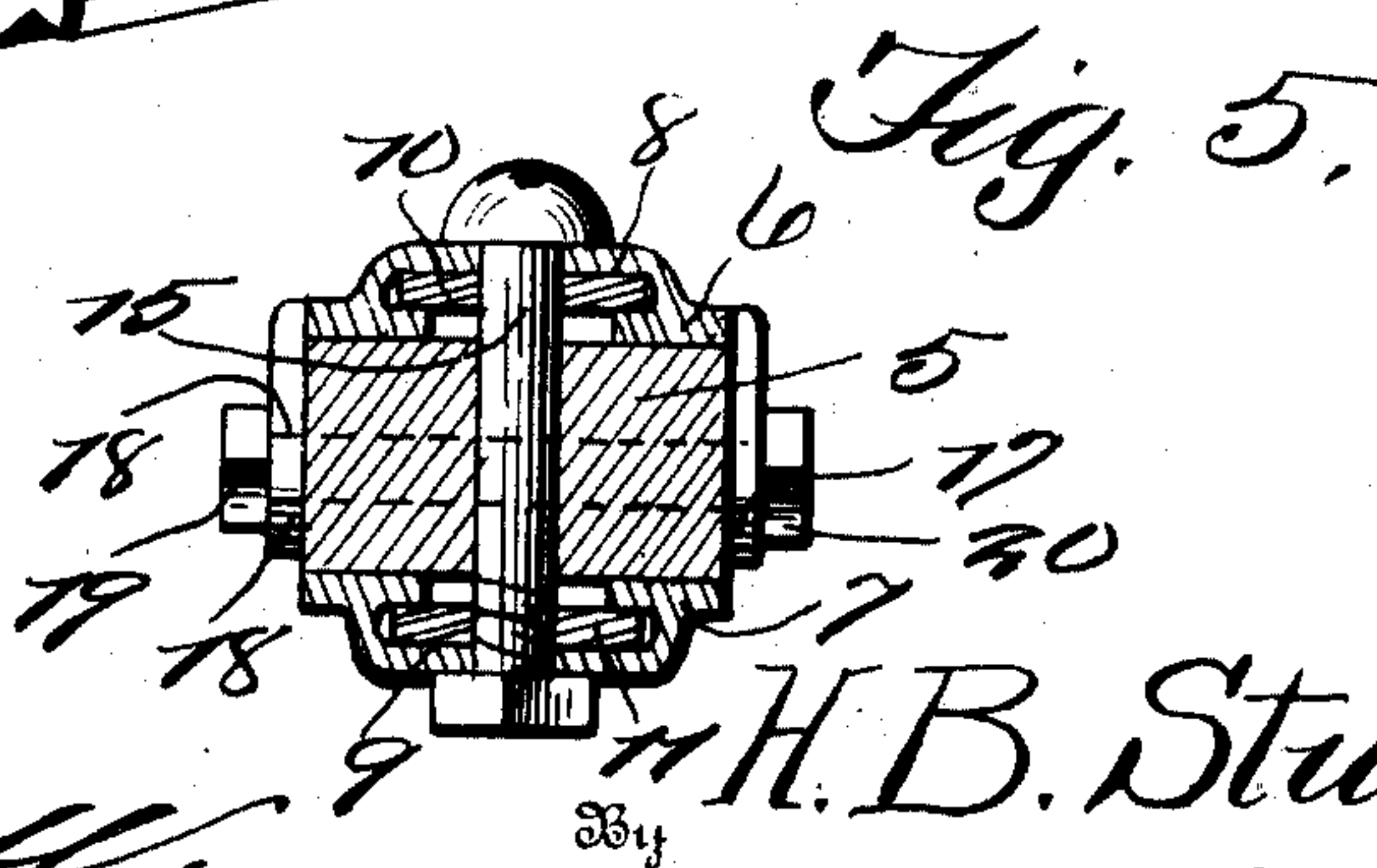
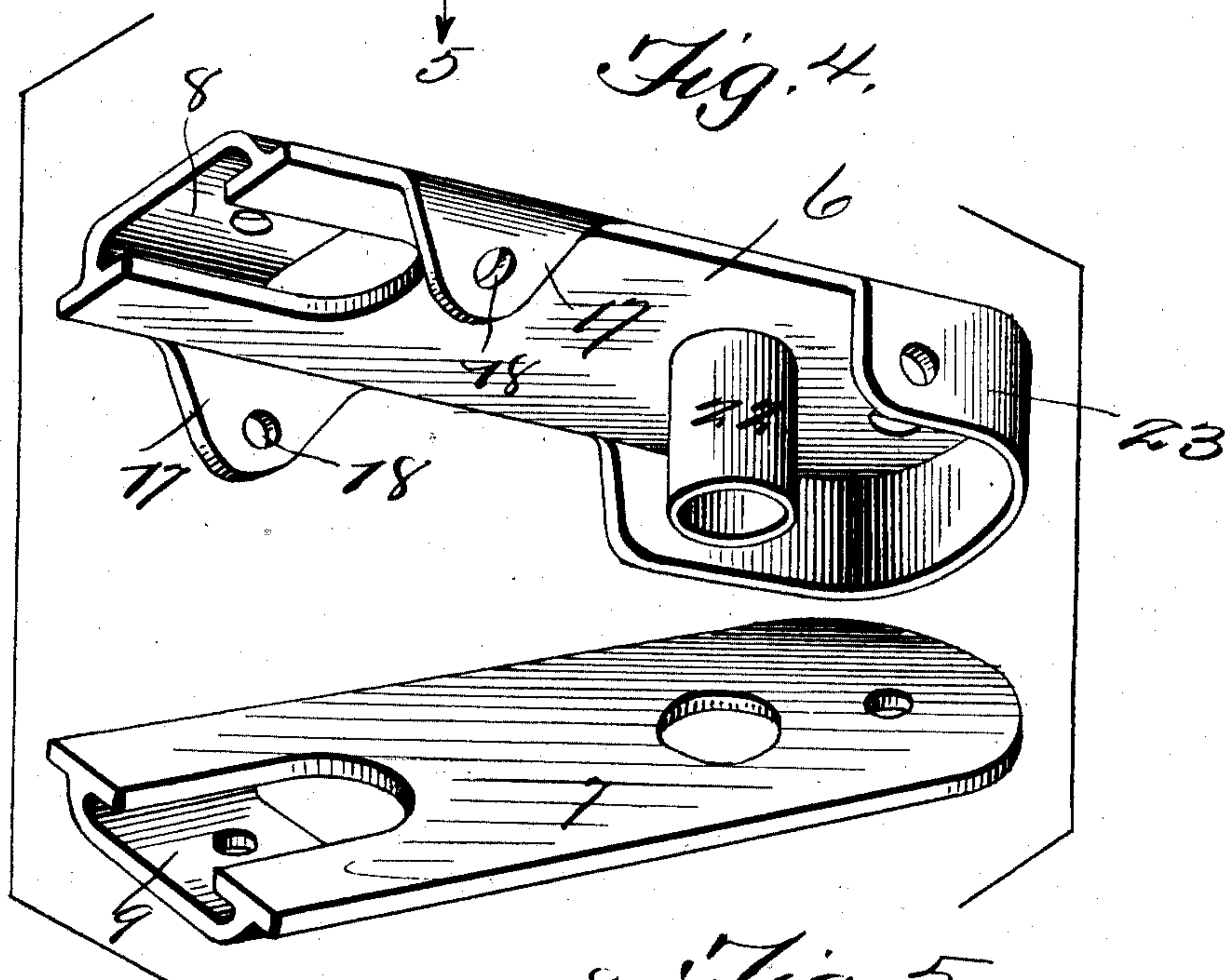
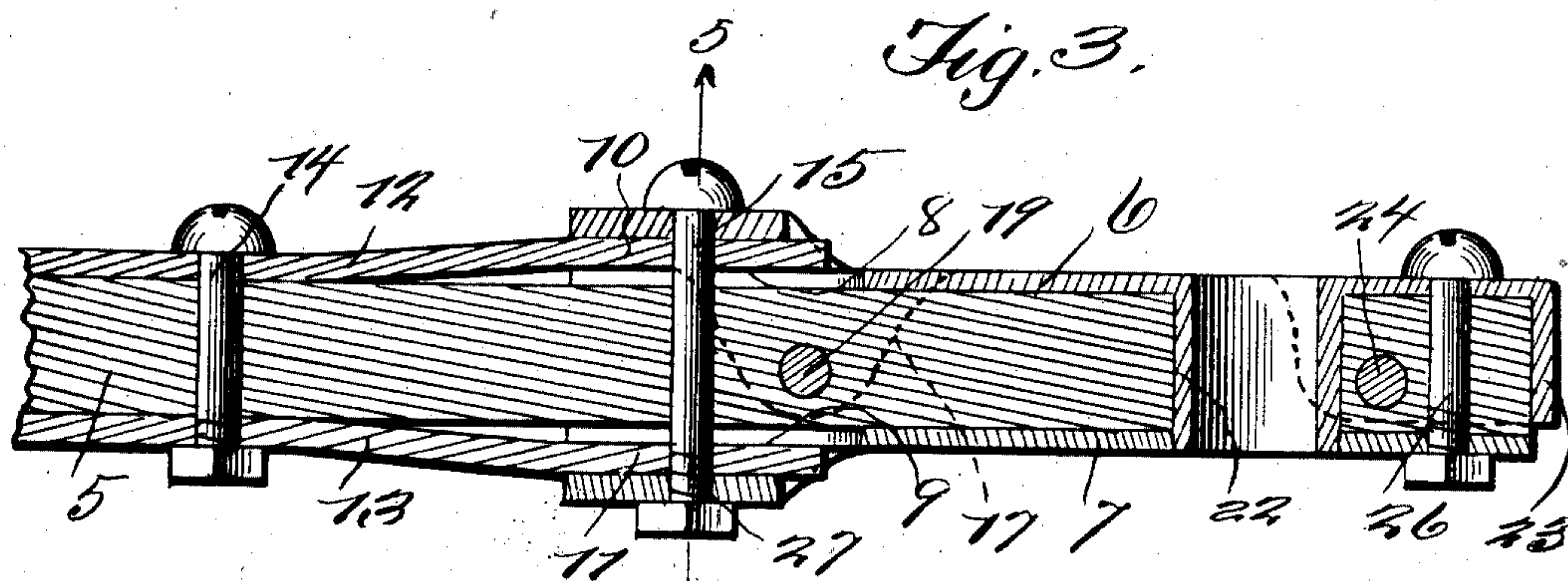
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2 SHEETS—SHEET 2.



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HENRY B. STUDEBAKER, OF PAGOSA SPRINGS, COLORADO.

RUNNING-GEAR.

No. 864,809.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed April 26, 1907. Serial No. 370,391.

To all whom it may concern:

Be it known that I, HENRY B. STUDEBAKER, a citizen of the United States, residing at Pagosa Springs, in the county of Archuleta and State of Colorado, have invented certain new and useful Improvements in Running-Gears, of which the following is a specification, reference being had therein to the accompanying drawing.

The invention pertains to that part of a wagon known as the running gear and the principal object thereof, is to provide strengthening means for the reach thereof, as clearly shown in the drawings. The strengthening means comprises upper and lower plates, which are bolted to the end of the reach the upper plate being provided with an integral metallic bushing, to receive the king pin of the wagon. Furthermore, the front hounds of the wagon are provided with spring devices with which the reach coöperates as will be clearly observed from the drawings.

With these and other objects, the invention comprises further combinations of features which will be hereinafter described, pointed out in the claims and shown in the drawings, in which,

Figure 1 is a top plan view of the running gear of a wagon, illustrating the invention. Fig. 2 is a perspective view of the front hounds of a wagon, illustrating the forward end of the reach, in connection therewith. Fig. 3 is a sectional view through the forward ends of the reach. Fig. 4 is a perspective view of the upper and lower plates carried by the reach, but showing the same as detached from said reach. Fig. 5 is a sectional view on line 5—5 of Fig. 3.

Referring specifically to the accompanying drawings, 1 and 2 indicate the front and rear axles of the running-gear of a wagon; the said axles as shown carry suitable bolsters 3 and 4 as shown. The front and rear axles and bolsters are connected by the reach 5, the forward end of which is reinforced by the upper and lower strengthening plates 6 and 7, which are provided with pockets 8 and 9 to receive the ends 10 and 11 of the strengthening bars 12 and 13 which are bolted to the upper and lower faces of the reach as at 14. The forward ends 10 and 11 of the said bars, are bolted in the pockets of the strengthening plates as at 15 as shown in Fig. 3.

The outer edges of the upper strengthening plate are provided with ears 17, which have registering apertures 18 to receive the bolt 19 which extends laterally of the said reach, and which is held in proper position by means of the nut 20. To obviate considerable amount of wear upon the bore of the reach, through

which the king pin 21 is designed to pass, the upper strengthening plate is provided with an integral metallic bushing 22, which fits the said bore of the reach and also extends through the opening of the lower strengthening plate, so as the lower periphery thereof will be flush with the under surface of the lower strengthening plate.

The outer end of the upper strengthening plate and a portion of its edges is provided with a flange 23 which fits the outer end of the said reach, and is also bolted thereto by the lateral extending bolt 24, and the nut 25. The upper and lower strengthening plates are also bolted to the reach as at 26 and 27. Heretofore the metallic bushing for receiving the king pin has been made separate, but in the present invention, it is found to be essential to make the said bushing integral with the upper strengthening plate, so that the wear thereon, will be to a great extent modified. The rear axle of the running gear is provided with the usual hounds and the front hounds 28 are provided with spring devices 29, with which, the reach and the front bolster coöperate as will be clearly manifest.

Having thus described the invention, what is claimed as new and useful, is:

1. In an apparatus of the class described, a reach, upper and lower strengthening plates therefor, the said upper plate having a forward flange and rearward ears, designed to be bolted to the said reach, the said strengthening plates, having recesses forming pockets, said reach being provided with upper and lower strengthening bars, the forward ends of which being received by said pockets, substantially as specified.

2. In an apparatus of the class described, a reach, upper and lower strengthening plates therefor, said reach having a bore to receive the usual king pin, the said upper strengthening plate having an integral bushing received by said bore, and with which, said king pin coöperates, said plates having pockets, said reach having strengthening bars, the forward ends of which, being received by said pockets.

3. In an apparatus of the class described, a reach, upper and lower strengthening plates therefor, the upper plate having an integral bushing, a forward flange and rearwardly positioned ears, said reach having a bore to receive the usual king pin, said bore being designed to receive the said bushing, with which said king pin is designed to coöperate, said plates having pockets, said reach having strengthening bars the forward ends of which being received by said pockets and nuts and bolts for fastening the reach, plates and bars.

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

HENRY B. STUDEBAKER.

Witnesses:

B. C. HAMPTON,
JAS. A. MATTHEWS.