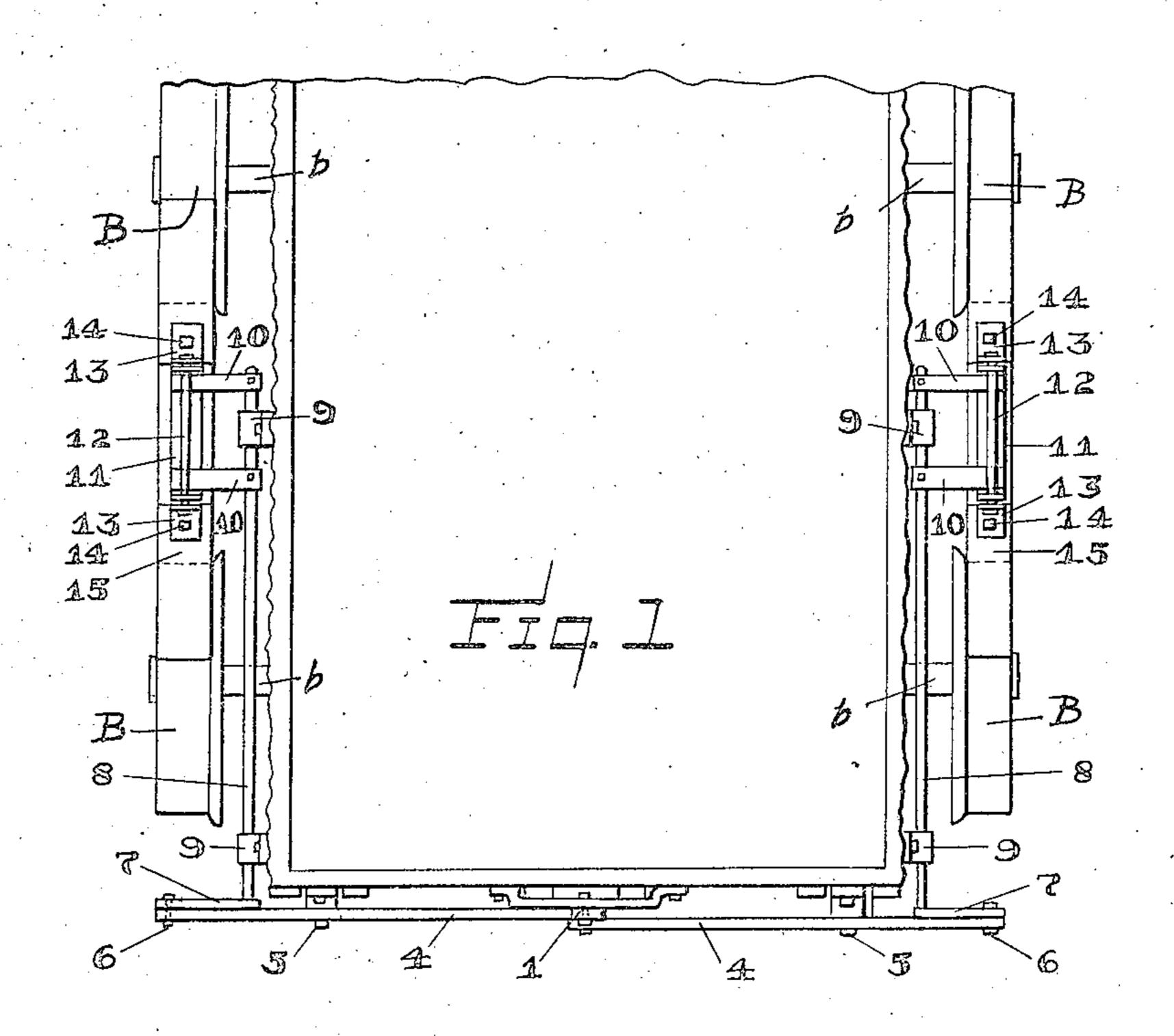
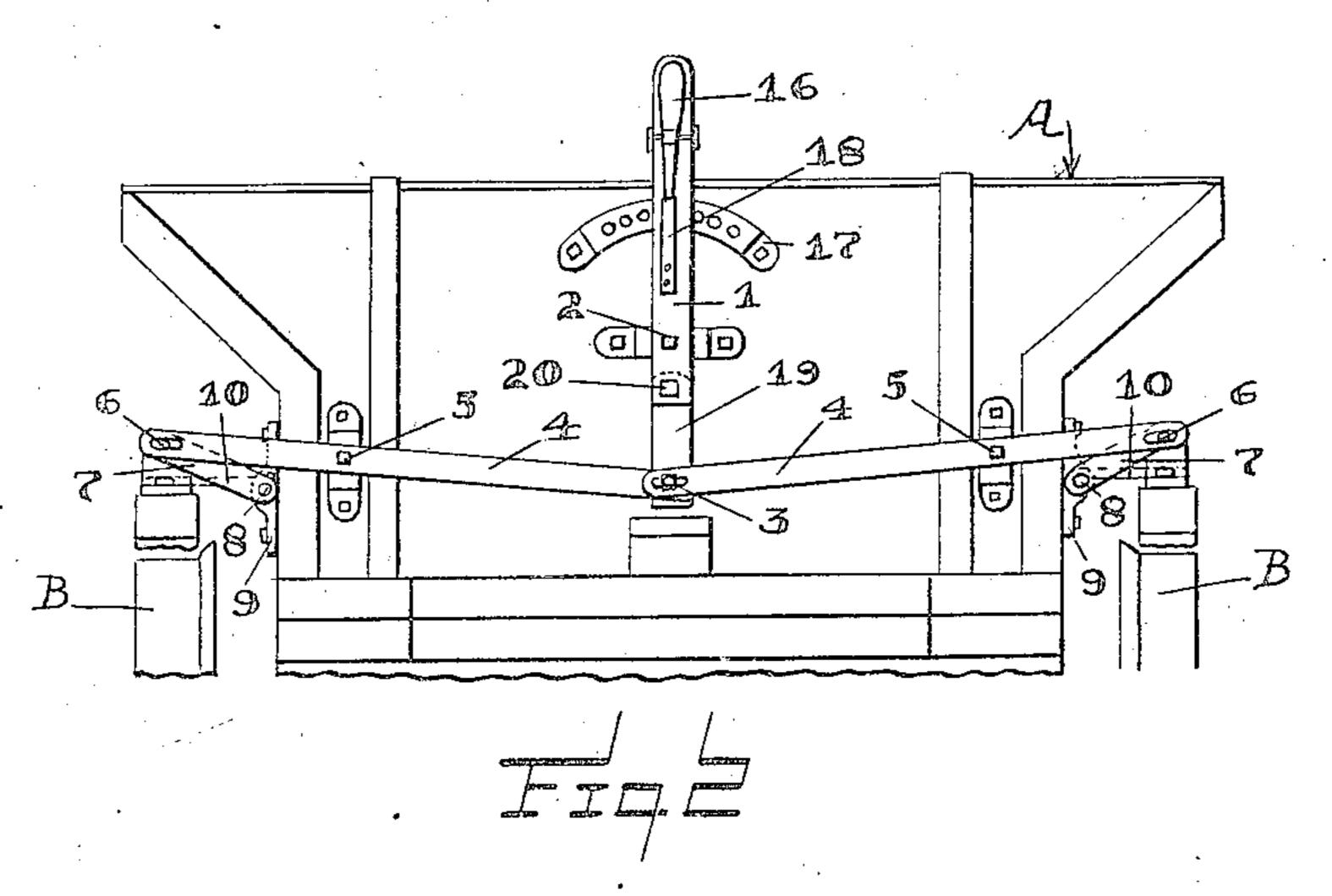
C. W. HELTMAN.

BRAKE.

FILED APR. 22, 1921.

2 SHEETS-SHEET 1.





[.W.Heltman.

INVENTOR

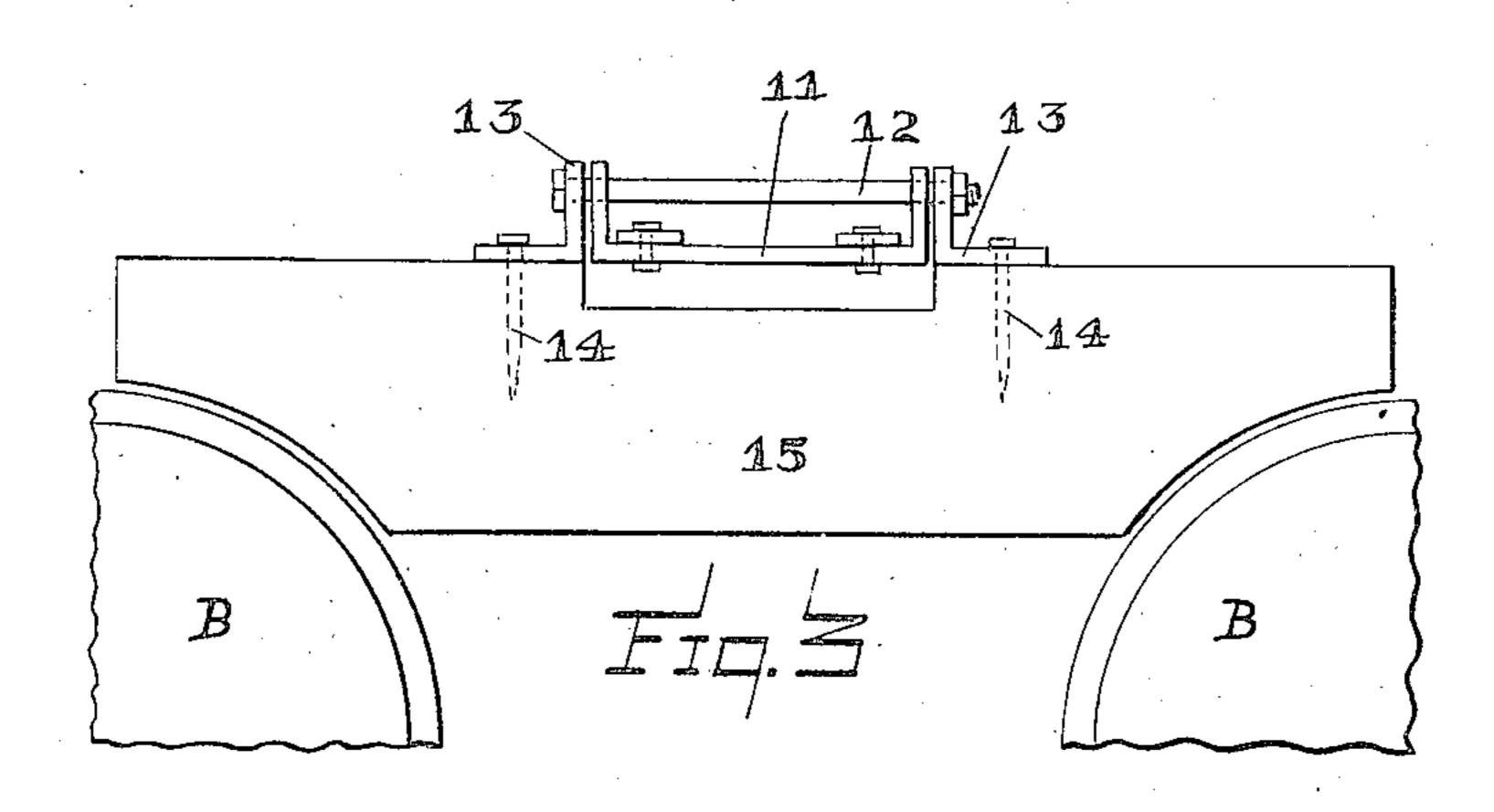
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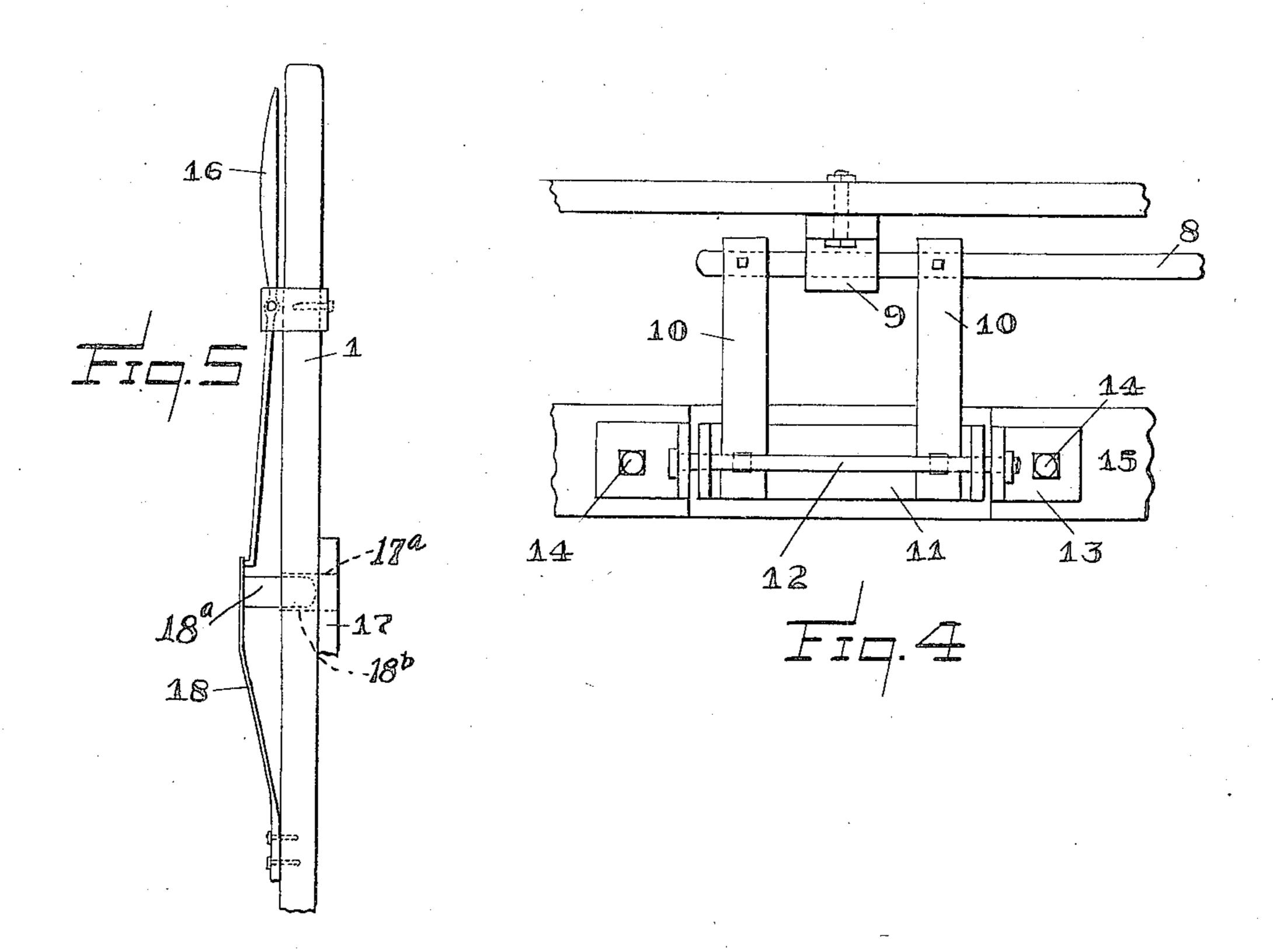
C. W. HELTMAN.

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FILED APR. 22, 1921.

2 SHEETS-SHEET 2,





C.W. Heltman,
INVENTOR

EY WILLES J. GARGIES

ATTORNEY

UNITED STATES PATENT OFFICE.

CURG W. HELTMAN, OF INDIANA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WILLIAM F. WETTLING, OF INDIANA, PENNSYLVANIA, AND ONE-THIRD TO FRANK SUTTON, OF WASHINGTON, DISTRICT OF COLUMBIA.

BRAKE.

Application filed April 22, 1921. Serial No. 463,666.

the car.

To all whom it may concern:

the following is a specification.

and more particularly to a brake specially

10 adapted for use on mine cars.

One of the main objects of the invention is to provide a braking means which may be readily applied to mine cars of stand-15 blocks are held out of contact with the car wheels when the brake is not applied. A further object is to provide a braking device which may be readily operated from either side of the car. Another object is 20 to provide simple and efficient means whereby the brake blocks may be easily applied with great pressure to the wheels. Further scription.

In the drawings:

of a mine car of standard type with brak- illustrated, the inner ends of levers 4 are ing means constructed in accordance with held depressed thus holding blocks 15 my invention applied.

the braking means applied.

and associated parts, the wheels of the car to the fact that lever 1 is pivoted adjacent being shown fragmentarily.

40 to its lower end, at 2, at the central por- rection from its central position, this pro-45 the inner ends of two levers 4 pivoted ad- be understood, it may be found desirable by 50 8 rockably mounted in bearings 9 secured the appended claims, in this application in to the side of the car. Arms 10 are secured to this shaft adjacent to the other end thereof, at their inner ends, the outer ends of these arms being secured to the bight

o all whom it may concern:

Be it known that Curc W. Heltman, a is rockably mounted on a rod 12 secured citizen of the United States, residing at through the vertical arms of angle members Indiana, in the county of Indiana and State 13 which are secured by screw bolts 14 to 5 of Pennsylvania, have invented new and a brake block 15 which is thus suspended useful Improvements in Brakes, of which above and between wheels B secured on 60 axles b of the car. The U-member 11 and This invention relates to braking devices, rod 12 provide a pivotal mounting for the brake block 15 which insures that this block hangs plumb or vertical above and between the wheels of the car so that, upon lower- 65 ing of the block, proper contact of the same with the wheels is insured.

ard construction and by which the brake A detent lever 16 is rockably mounted in a suitable clip secured on operating lever 1 adjacent to the upper end thereof. This 70 detent lever engages, at its lower end, with the inner face of the upper end of a leaf spring 18 secured to lever 1, this spring being provided with a pin or detent 18a operating through an opening 18b through 75 the lever and adapted for engagement in objects will appear from the detailed de- any one, selectively, of the series of openings 17a of a rack 17 secured to the end of

Figure 1 is a fragmentary top plan view When lever 1 is in central position, as 80 raised out of contact with the wheels. By Figure 2 is an end view of the car with swinging the operating lever in either direction the inner ends of levers 4 are raised 85 Figure 3 is a side view of the brake block thus applying the blocks to the wheels. Due to its lower end, and levers 4 are pivoted Figure 4 is a top plan view of one of adjacent to their outer ends, slight presthe brake blocks and associated parts.

sure on lever 1 will result in the blocks 90 Figure 5 is a detail of the means for being applied to the wheels with relatively securing the operating lever in adjustment. great pressure. As the blocks will be ap-An operating lever 1 is pivoted, adjacent plied when the lever is moved in either dition of one end of car A. This lever vides simple and efficient braking means 95 has its lower end pivotally connected, at which may be readily operated from either 20, to a link 19 the lower end of which is side of the car which is a very desirable connected by pin and slot connections 3 to result particularly in mine cars. As will jacent to their outer ends, at 5, on the end experience to resort to changes in details of 100 of the car. Each of the levers 4 is con- construction and arrangement of parts of nected by pin and slot connections 6 to the the invention, and I intend to include all outer end of an arm 7 secured upon a shaft such variations, as fall within the scope of which the preferred form only of my in- 105 vention is disclosed.

> What I claim is:— 1. In combination with a car, brake

blocks suspended above the wheels of the and the blocks for depressing the blocks 5 rocked in either direction away from cen- central position. tral position and for raising the blocks 4. In combination with a car, brake when the lever is moved toward central po- blocks pivotally suspended above the wheels sition.

10 shafts, arms secured on said shafts, brake depressing the blocks when the lever is blocks connected to the shafts so as to be rocked in either direction away from cenraised and lowered thereby, supplemental tral position and for raising the blocks having their outer ends connected to said sition. 15 arms by pin and slot connections, an oper- 5. In combination with a car, brake memouter ends of the supplemental levers, a of contact with the wheels of the car, an

20 slot connections between the lower end of ing said members into contact with the mental levers.

25 wheels of the car, means for supporting said is moved toward central position. blocks in vertical position, an operating Intestimony whereof I affix my signature.

car, an operating lever, and connections be- when the lever is rocked in either direction tween said lever and the blocks for de- away from central position and for raising 30 pressing the blocks when the lever is the blocks when the lever is moved toward

of the car, an operating lever, and connec- 35 2. In braking means, rockably mounted tions between said lever and the blocks for levers pivoted intermediate their ends and when the lever is moved toward central po- 40

ating lever positioned midway between the bers mounted for movement into and out link pivoted at its upper end to the lower operating lever, and connections between 45 end of the operating lever, and pin and said lever and the brake members for mov-

said link and the inner ends of the supple- wheels when the lever is moved in either direction away from central position, said 3. In combination with a car, brake connections acting to move the brake mem- 50 blocks positioned above and between the bers away from the wheels when said lever

lever, and connections between said lever CURG W. HELTMAN.