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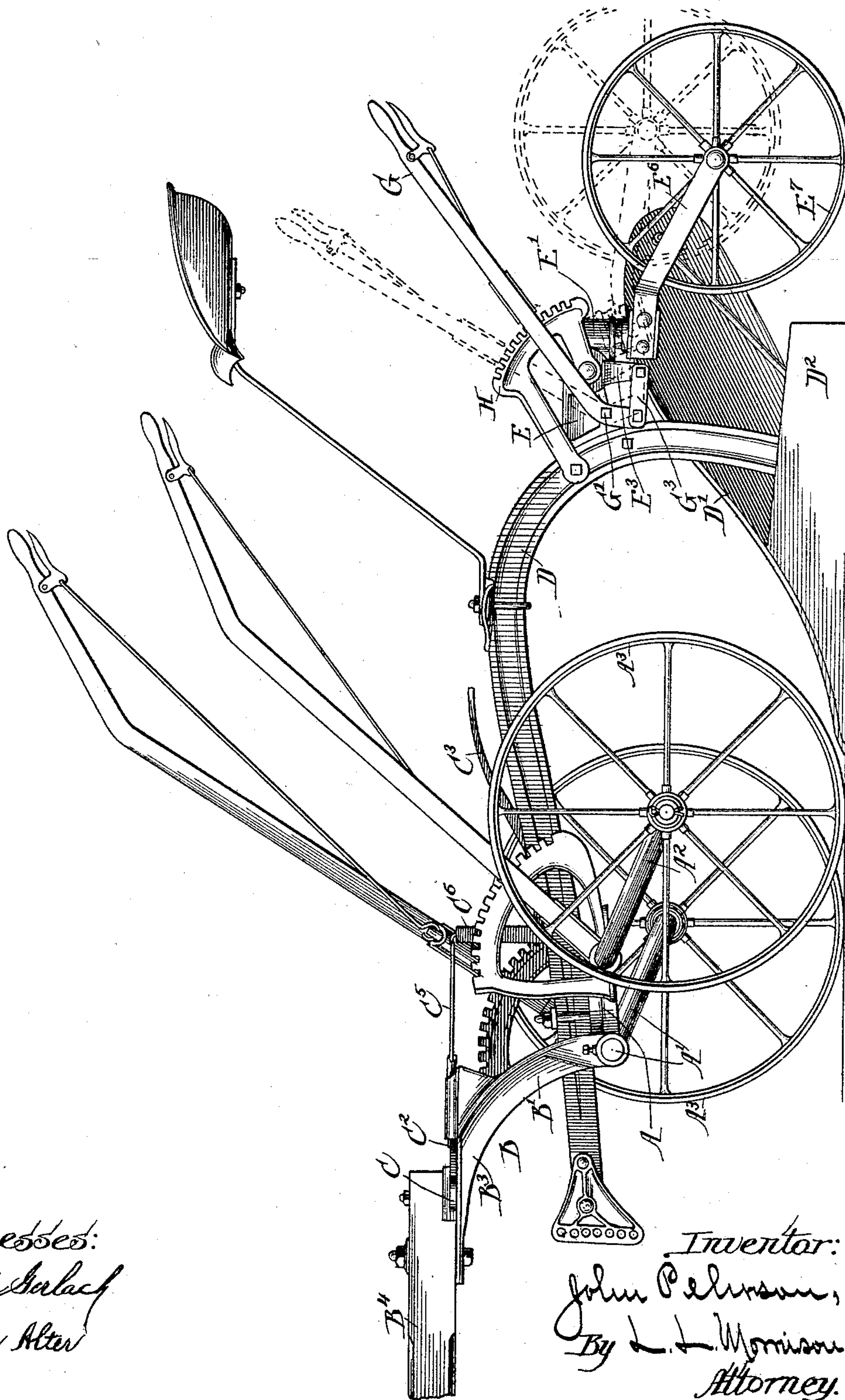
3 Sheets—Sheet 1.

J. PEHRSON.
PLOW.

No. 441,891.

Patented Dec. 2, 1890.

Fig 1.



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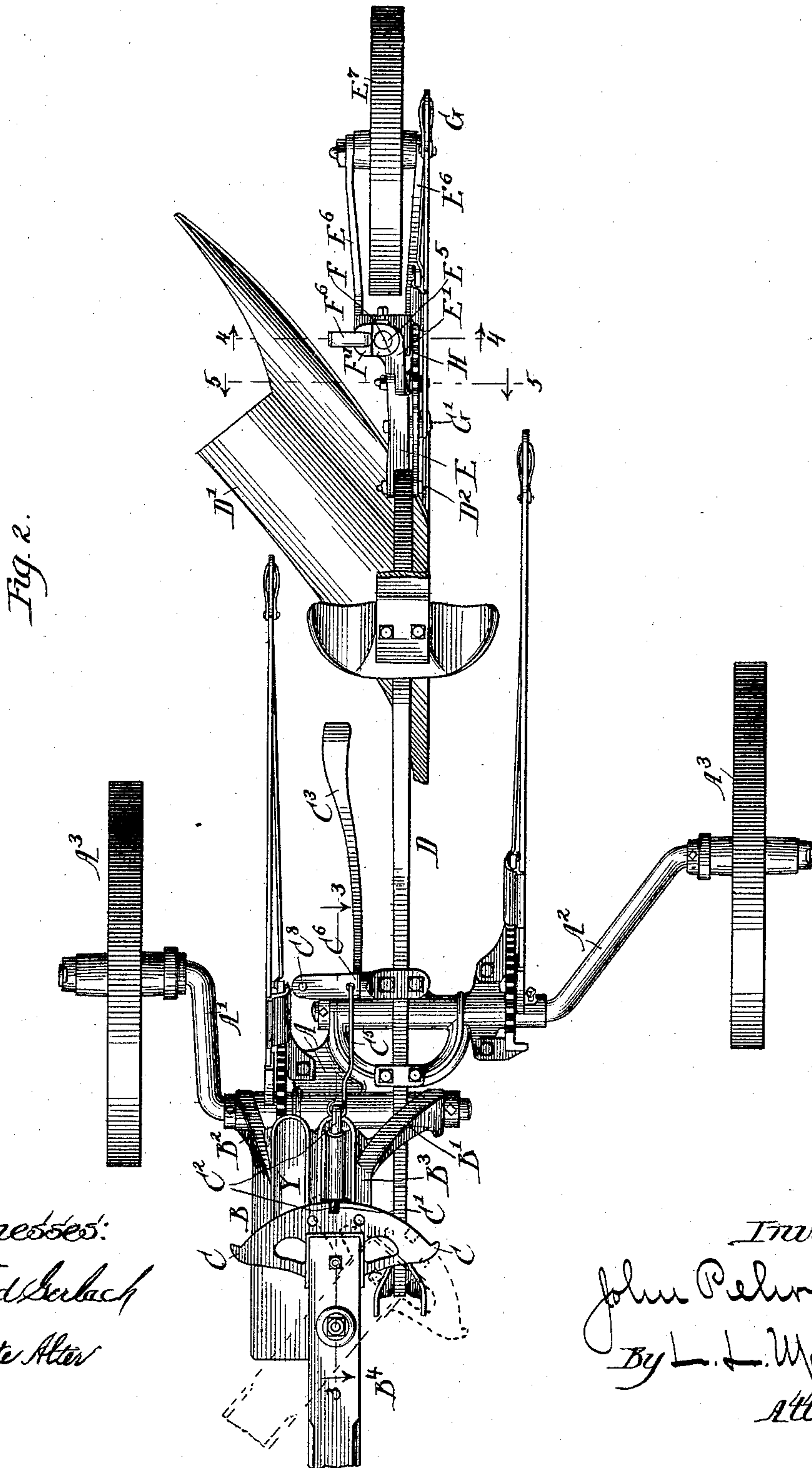
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J. PEHRSON.
 PLOW.

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(No Model.)

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PLOW.

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Fig. 3.

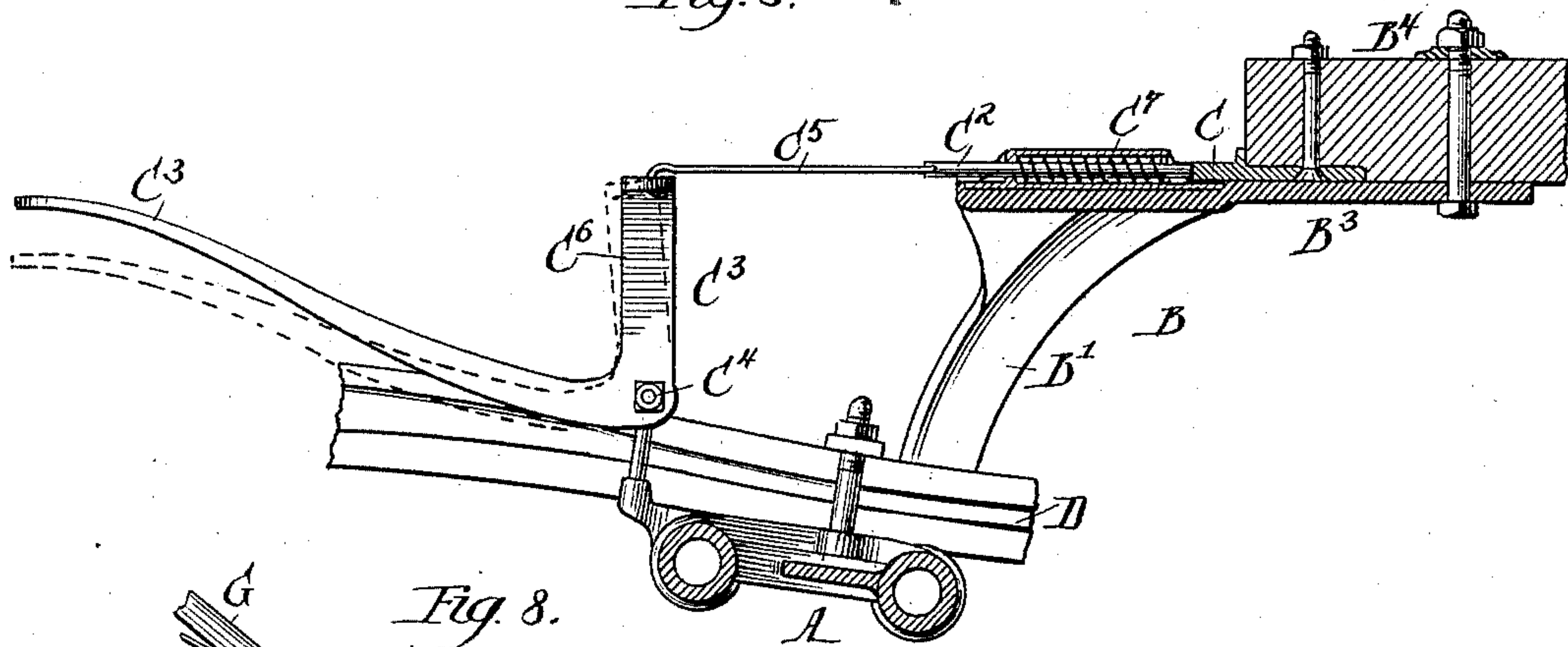


Fig. 8.

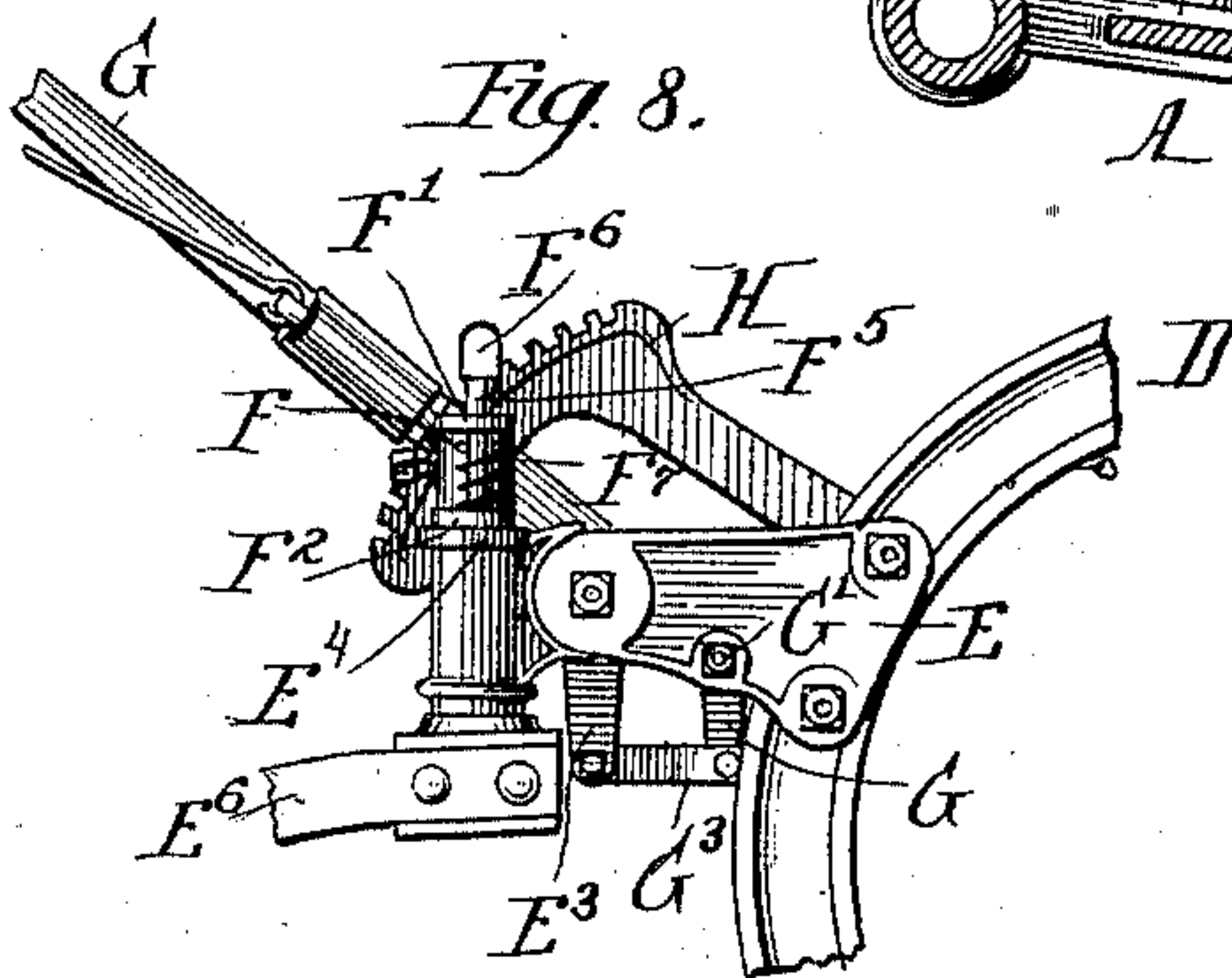


Fig. 5.

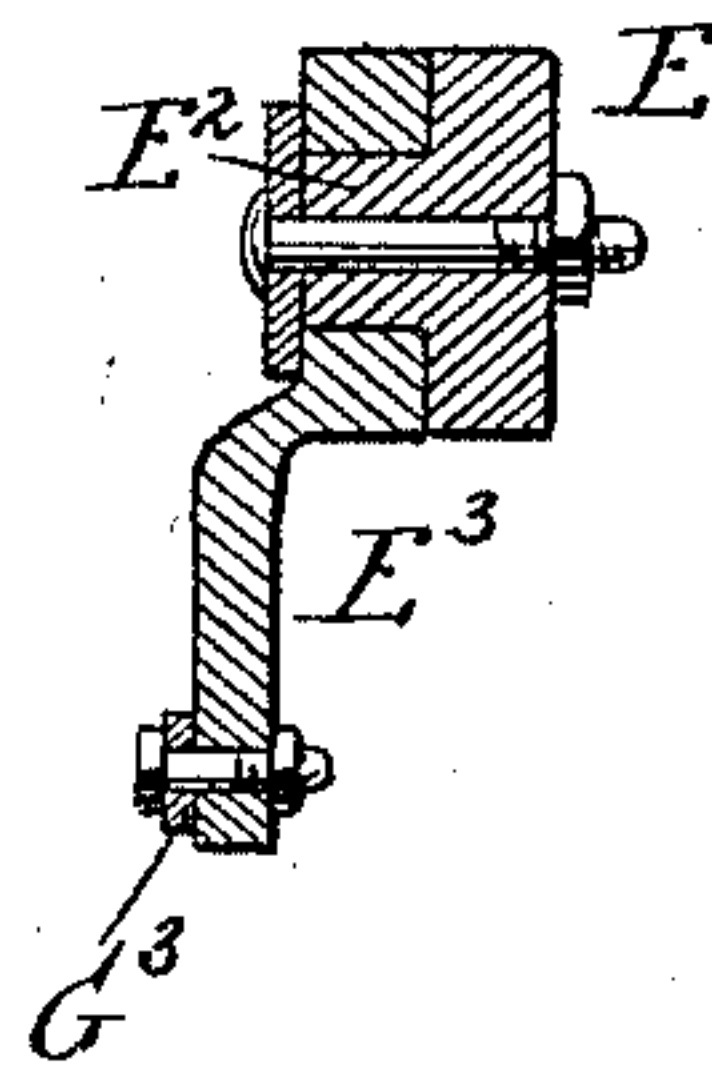


Fig. 4.

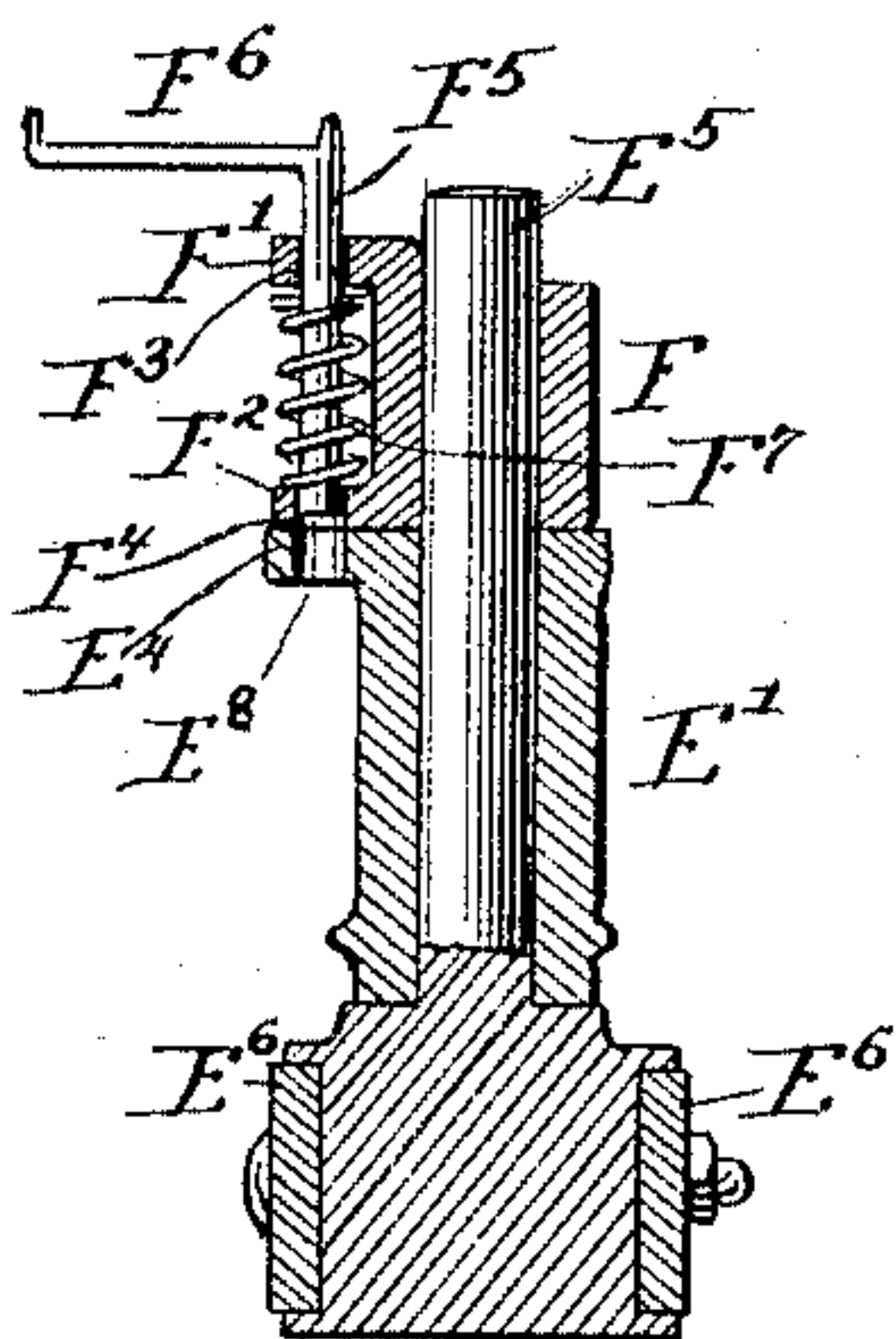


Fig. 6.

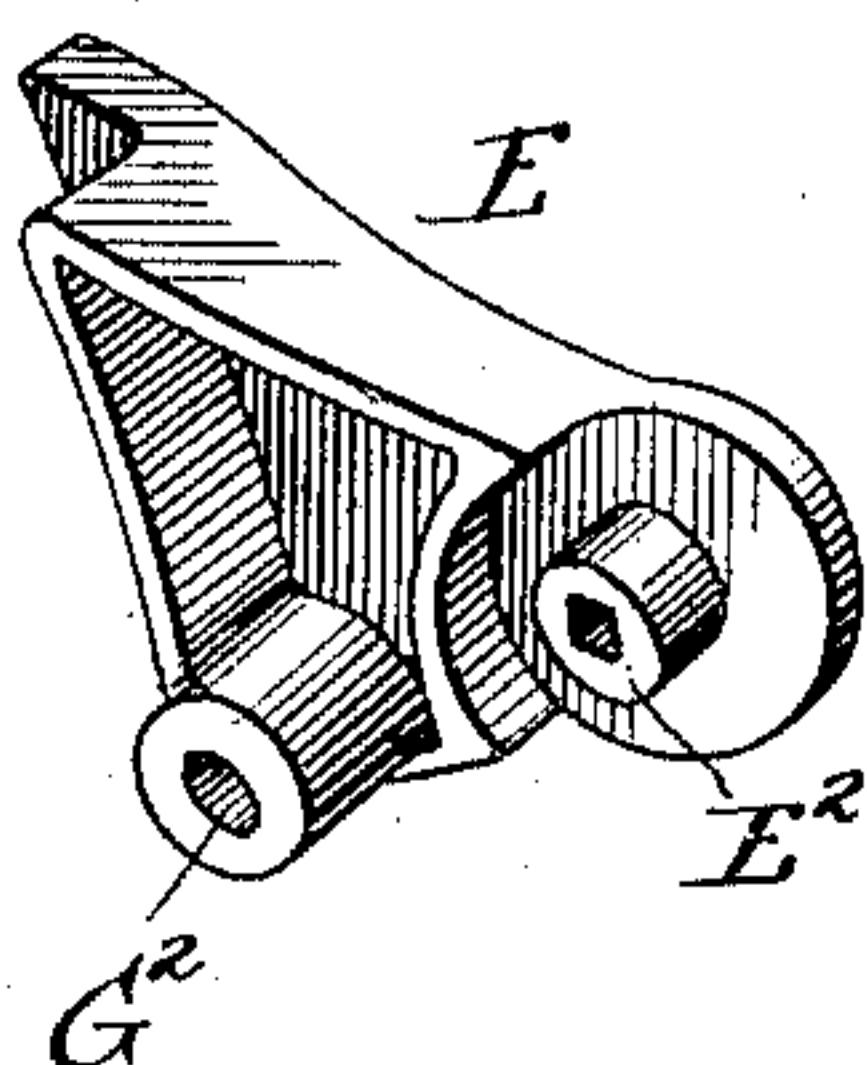
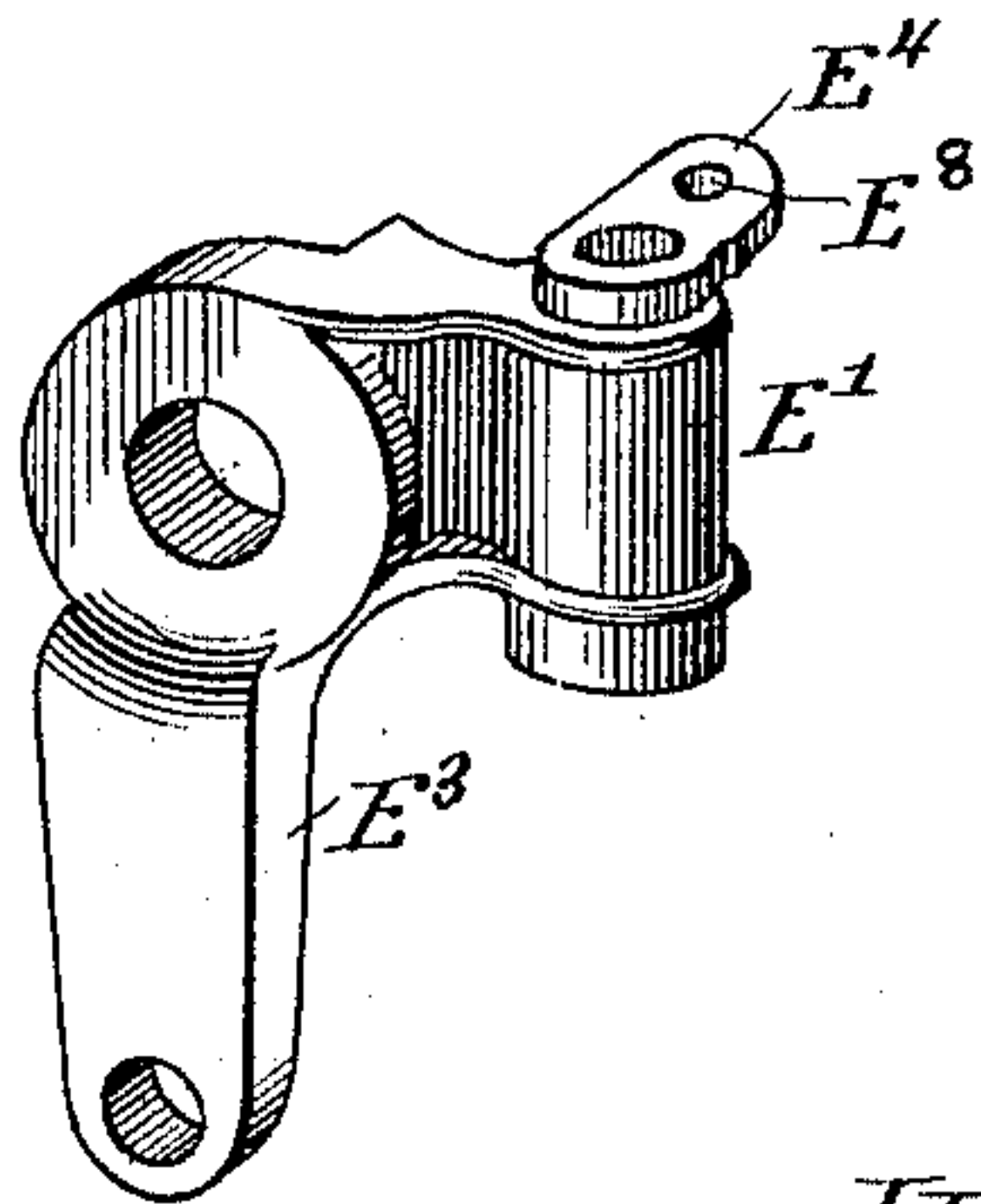


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN PEHRSON, OF ROCKFORD, ILLINOIS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 441,891, dated December 2, 1890.

Application filed July 17, 1890. Serial No. 359,054. (No model.)

To all whom it may concern:

Be it known that I, JOHN PEHRSON, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Plows, of which the following is a specification.

My improvement relates to that class of plows commonly known as "sulky-plows;" and it consists of certain new and useful features of construction and combinations of parts hereinafter described, and specifically pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a right side elevation of a plow embodying my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical section at the dotted line 3 3 in Fig. 2 of parts there shown. Fig. 4 is a vertical partial section at the dotted line 4 4 in Fig. 2 of parts there shown. Fig. 5 is a vertical partial section at the dotted line 5 5 in Fig. 2 of parts there shown. Figs. 6 and 7 are isometrical right-side views in detail of parts for connecting the yoke of the caster-wheel of the plow with the beam thereof. Fig. 8 is a left side elevation of the same operatively connected together and connecting the caster-wheel yoke with the plow-beam.

Like letters of reference indicate corresponding parts throughout the several views.

A is the main frame of the front portion of the plow.

A¹ A² are axles pivotally mounted therein and having wheels A³ mounted thereon.

B is a Y-shaped tongue-support, the bifurcations B¹ B² whereof curve downward and backward and have pivotal connection at their lower ends with the axle A¹.

B⁴ is a tongue pivotally connected with the portion B³ of the tongue-support B.

C is a segment-plate fast to the reduced rear end of the tongue B⁴ and having a detent-slot C¹ in the center of the peripheral portion thereof.

C² is a detent mounted on the part B³ and adapted to engage with and be disengaged from the slot C¹ in the segment-plate C.

C³ is a curved foot-lever pivotally mounted on the bolt C⁴.

C⁵ is a rod or other suitable connection be-

tween the short arm C⁶ of the lever C³ and the detent C².

C⁷ is an actuating-spring, which holds the detent C² into engagement with the slot C¹ in the plate C at all times, except when it is withdrawn therefrom by pressing on the lever C³.

When the plow is in use, the lever C³ plays up and down, participating in all the vertical motions of the tongue B⁴, and when the plow is unused and the free end of its tongue rests on the ground the detent C² will still be held into engagement with the plate C, thereby at all times preventing the tongue from turning on its pivot, except when the operator so desires and presses on the lever C³ to allow it to do so. The tongue B⁴ may be swung on its pivot either to the right or the left about thirty degrees, as indicated by dotted lines in Fig. 2, preparatory to making a right or left turn in plowing. If it should be desirable or necessary to change the center of draft of the plow, the detent C² may be located at Y and the tongue B⁴ repivoted to the part B³ accordingly and the rod C⁵ connected with the hole C⁸ in the part C³.

D is a plow beam connected with the part A.

D¹ D² are the mold-board and landside of the plow.

E is a bearing-bracket rigidly connected with the plow-beam D.

E¹ is a caster-wheel-yoke-stem bearing mounted on the bearing E² on the bracket E and provided with the downwardly-extending arm E³ and horizontal lug E⁴.

E⁵ is a caster-wheel-yoke stem inserted through the bearing E¹, wherein it may be rotated.

E⁶ is a caster-wheel yoke fast to the lower end of the stem E⁵.

E⁷ is a caster-wheel mounted in the yoke E⁶.

F is a collar fast to the upper end of the stem E⁵ and provided with the parallel horizontal lugs F¹ F², having holes F³ F⁴ therein concentric with each other and the hole E⁸ in the lug E⁴.

F⁵ is a detent adapted to slide in the holes F³ F⁴ E⁸. F⁶ is a pedal fast to the upper end thereof.

F⁷ is a spring for holding the detent F⁵ out of engagement with the lug E⁴.

G is an adjusting-lever pivotally mounted on the bolt G¹ at G².

G³ is a connecting-bar pivot jointed to the lower ends of the lever G and the arm E³.

H is a segment-rack fast to the beam D and bracket E.

5 Pressing the lever G downward raises the heel of the plow, and thereby throws its point downward into the ground.

Whenever it is desired to dispense with the caster-wheel E⁷, it may be raised to and suspended in the position indicated by the dotted lines in Fig. 2 by carrying the lever G upward.

It will frequently be found to be convenient and often necessary to prevent the caster-wheel E⁷ from turning on its swivel-joint when backing up and backing out of a furrow with the plow for any purpose. In order to do this, it is only necessary for the operator to press the pedal F⁶, when the detent F⁵ will descend and engage with the part E⁴, thereby rigidly connecting the parts E' F while such connection continues.

I claim—

1. In a plow, in combination, the plow-beam, 25 the bearing-bracket rigidly connected therewith, the caster-wheel-yoke-stem bearing pivotally mounted on the bearing-bracket and provided with the downwardly-extending arm E³, the caster-wheel-yoke stem inserted 30 through and revoluble in the caster-wheel-

yoke-stem bearing, the caster-wheel yoke fast to the lower end of said stem, the adjusting-lever mounted on the bearing-bracket, and the connecting-bar pivot jointed to the lower ends of the adjusting-lever and arm E³, substantially as and for the purpose specified. 35

2. In a plow, in combination, the plow-beam, the bearing-bracket rigidly connected therewith, the caster-wheel-yoke-stem bearing pivotally mounted on said bracket and provided 40 with the downwardly-extending arm E³ and the lug E⁴, having a vertical hole therein, the caster-wheel-yoke stem inserted through and revoluble in said bearing, the collar fast to the upper end of said stem and provided with 45 the lugs F' F², having holes therein concentric with each other and the hole in the lug E⁴, the detent adapted to slide in the holes in said lugs, the pedal fast to the upper end of said detent, the spring for holding said detent 50 out of engagement with the lug E⁴, the caster-wheel yoke fast to the lower ends of said stem, and the caster-wheel mounted in the yoke, substantially as and for the purpose specified.

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