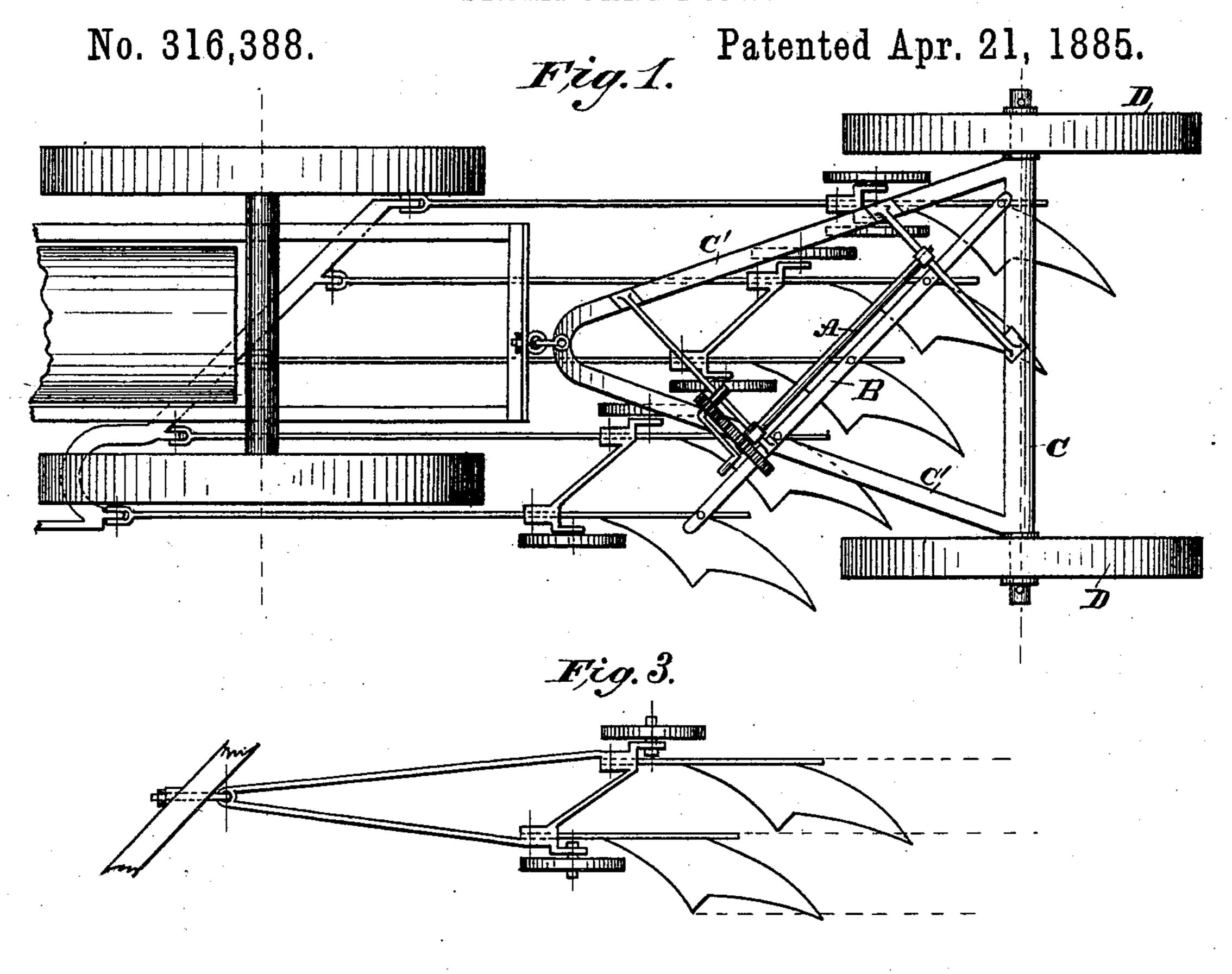
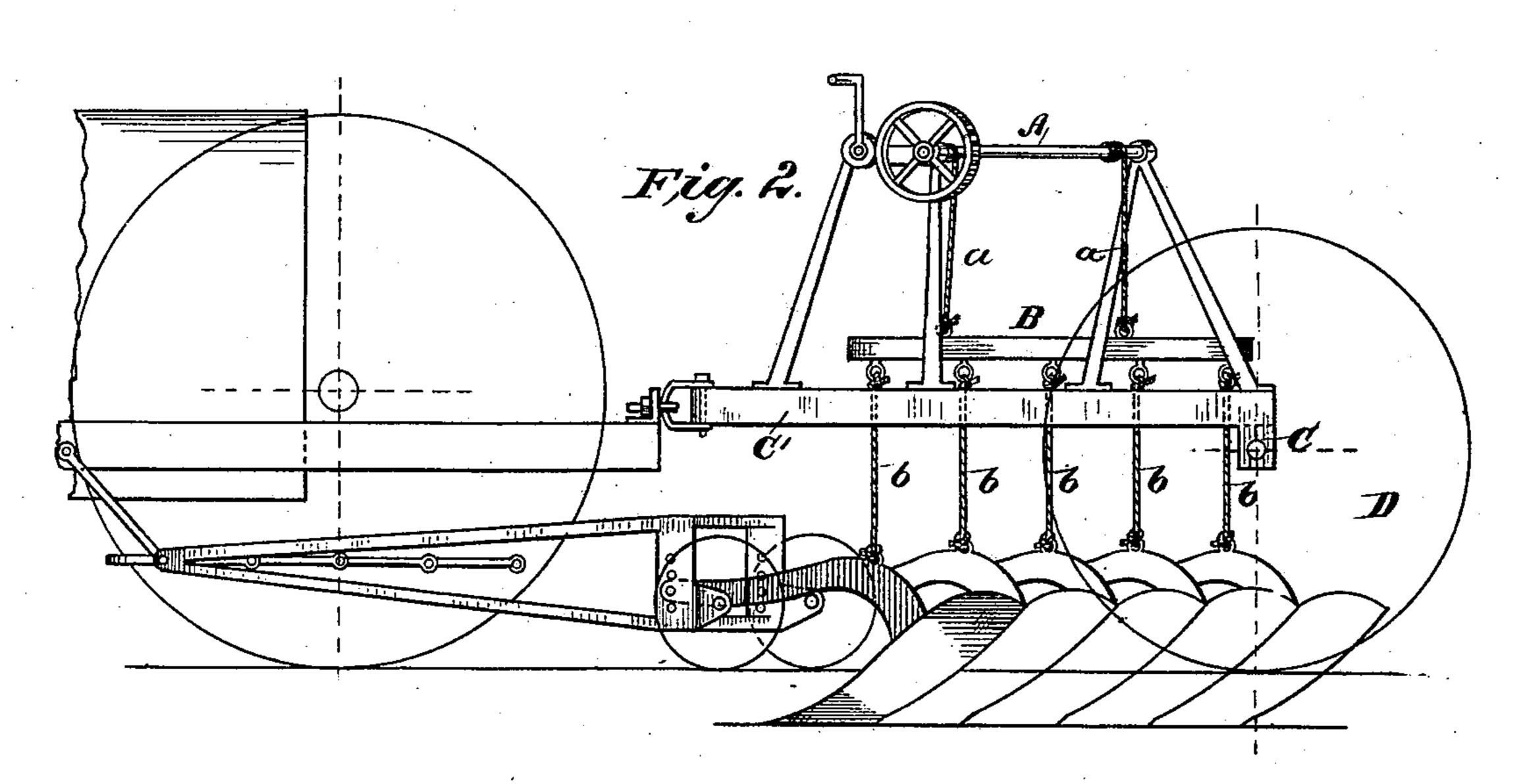
E. PENNEY.

STEAM GANG PLOW.





Witnesses:

E. J. Walker (

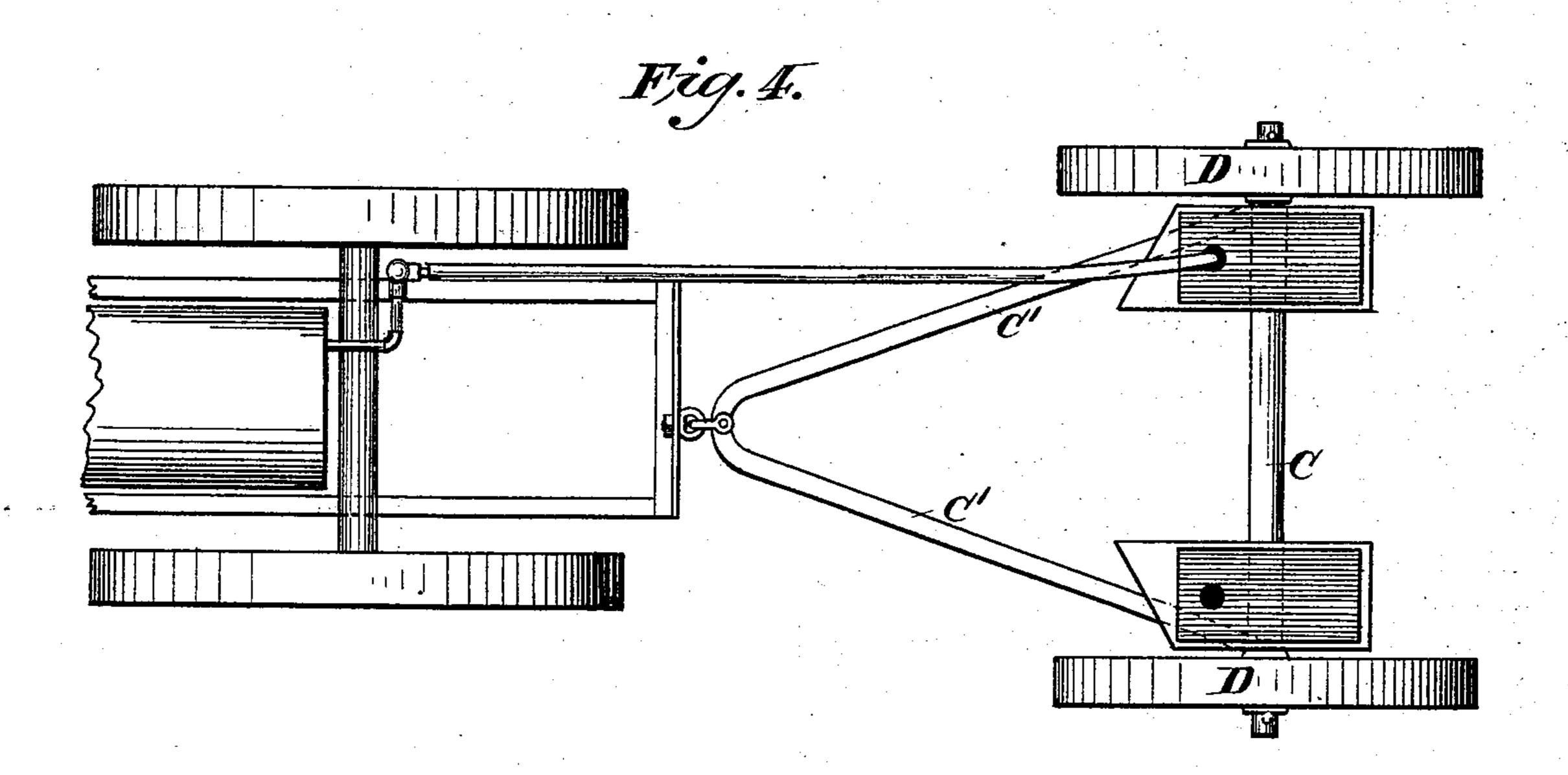
Inventor. Edgar Quiney by Andrews

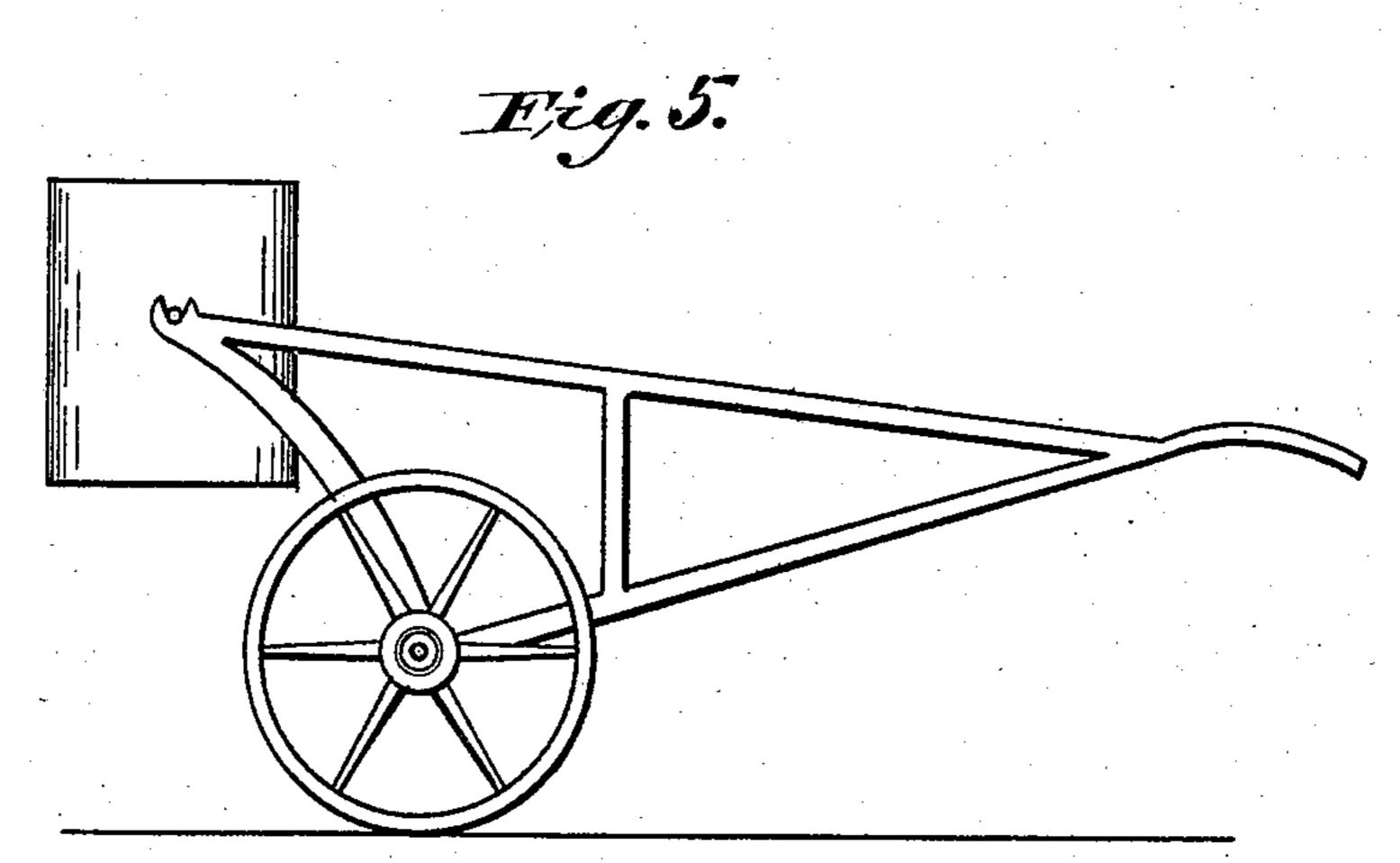
E. PENNEY.

STEAM GANG PLOW.

No. 316,388.

Patented Apr. 21, 1885.





Witnesses:

Edw. Nacker

Solgar Generaley May his assormery Official

United States Patent Office.

EDGAR PENNEY, OF WAYNESBOROUGH, PENNSYLVANIA.

STEAM GANG-PLOW.

SPECIFICATION forming part of Letters Patent No. 316,388, dated April 21, 1885.

Application filed October 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDGAR PENNEY, a citizen of the United States, residing at Waynesborough, in the county of Franklin and State 5 of Pennsylvania, have invented certain new and useful Improvements in Steam Gang-Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled 10 in the art to which it appertains to make and use the same.

This invention relates to steam gang-plows of that type in which the gang of plows has no separate frame, the plows being directly 15 attached to and drawn by a traction-engine.

My invention consists of the combination, with such a steam gang-plow, of a separate truck (drawn by but detachable from the traction-engine) supporting the plow-hoisting ap-20 paratus, and which may also be adapted for the carriage of fuel and water tanks.

understood, I have illustrated in the annexed drawings, and will proceed to describe, one

25 practical form thereof.

Figure 1 is a plan view showing so much of a steam gang-plow of the character mentioned as will suffice to illustrate the practical application of my invention. Fig. 2 is a side 30 elevation thereof. Fig. 3 illustrates a mode of hitching the plows in pairs somewhat different from that shown in Figs. 1 and 2.

The same letters of reference indicate iden-

tical parts in all the figures.

35 I make no claim herein for any features of construction or combination relating to the manner and means of mounting a gang of plows and connecting them with the tractionengine. Therefore I deem it unnecessary to 40 describe these features of the steam gang-plow illustrated in the drawings, my invention being applicable not only to this particular steam gang-plow, but to all such where the 45 frame, but are directly connected with the traction-engine. The hoisting apparatus may also be constructed in any known form that may be desired, or specially adapted to the particular style of gang-plow required.

I have shown a hoisting apparatus consist- 50 ing of a winding drum or shaft, A, provided with two chains or ropes, a a, carrying a diagonal lifting-bar, B, to which the diagonallyranked plows are connected by chains or ropes b. The winding-shaft, operated by suitable 55 gearing and also provided with a suitable brake, (not shown,) is supported on standards of the truck-frame in a diagonal position about vertically above the points where the ropes b are attached to the plows. The truck-frame 60 is of triangular form, consisting of the axlebeam C and converging side bars, C' C'. The axle-beam is supported on a pair of ordinary wheels, D D, and the front end of the truck; frame is provided with a clevis or other suit- 65 able device, affording a convenient means for effecting its attachment to the rear end of a traction-engine. In the example shown the truck is so constructed that one of its wheels runs on the unplowed land and the other in 70 In order that my invention may be clearly | the furrow cut by the plow in advance of it; but this construction may be varied, and in case it is desirable to carry the whole weight of the plows by this truck a suitable wheel or wheels should be placed at the front end 75 of its frame in addition to the wheels D D.

This independent truck may also be used for carrying tanks of water and fuel for the traction-engine, in addition to its office of carrying the plow-hoisting apparatus, as shown 80 in Fig. 4. In such cases it would be advantageous to use two such trucks with each steam gang-plow, so that as soon as the water and fuel tanks of one truck are exhausted such truck can be disconnected and its mate hav- 85 ing a full supply of water and fuel substituted. A great deal of time and expense could be saved by the use of two such trucks with each steam gang-plow, for one could be supplied with water and fuel ready for at- 90 tachment while the other is in use. To some extent this result might be attained by the plows are not mounted on a separate main | use of a single truck and double sets of detachable water and fuel tanks, which should be provided with trunnions, so that they might 95 be lifted and transported by a hand-truck, as indicated in Fig. 5.

I claim as my invention—

1. The combination, substantially as before set forth, of a traction-engine, a gang of plows hitched thereto, an independent truck, also hitched to the traction-engine, and a hoisting apparatus on said truck for hoisting the plows.

2. The combination, substantially as before set forth, of a traction-engine, a gang of plows hitched thereto, and an independent truck, also hitched to the traction-engine, carrying

tanks for water and fuel, as well as a hoisting 10 apparatus for hoisting the plows.

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

EDGAR PENNEY.

Witnesses:

S. M. STOLER, A. H. CAMPBELL.