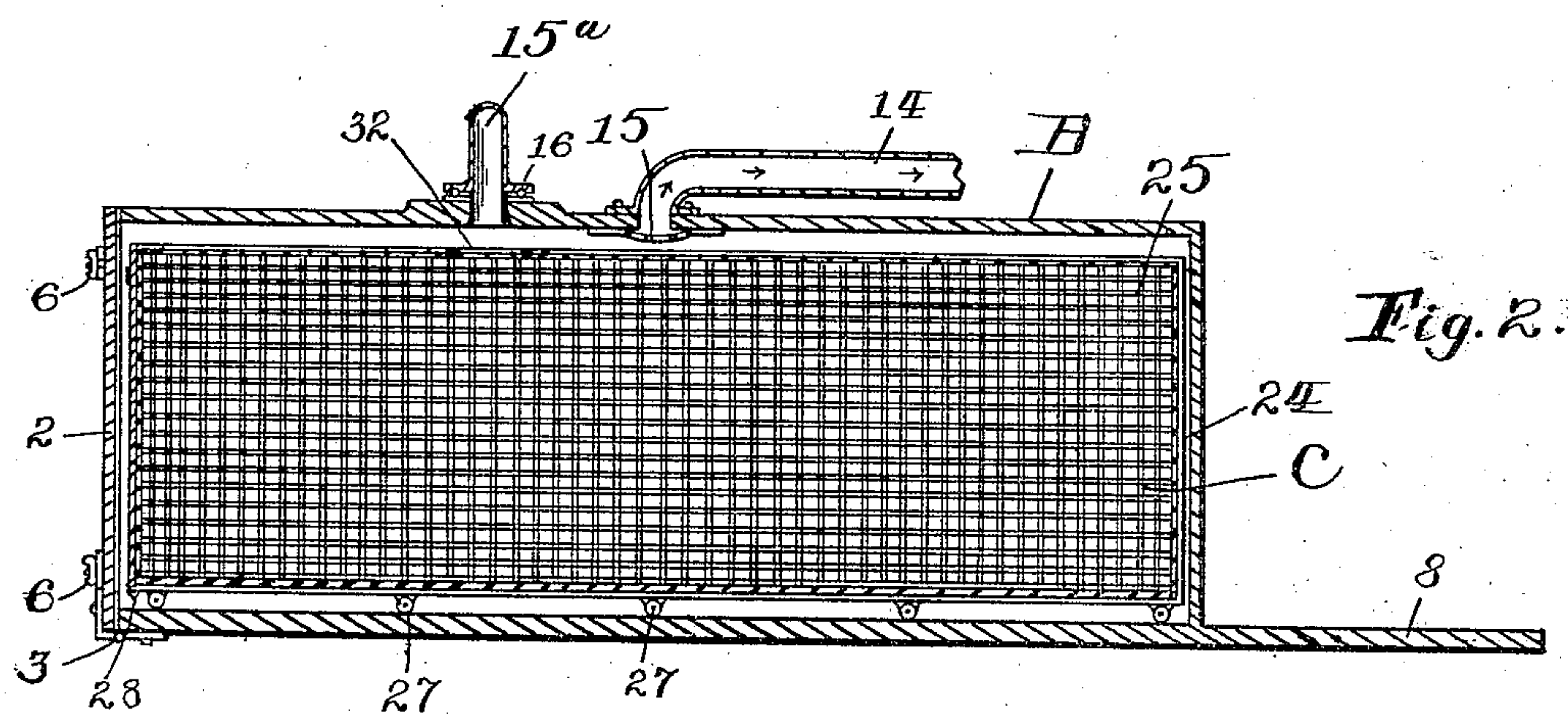
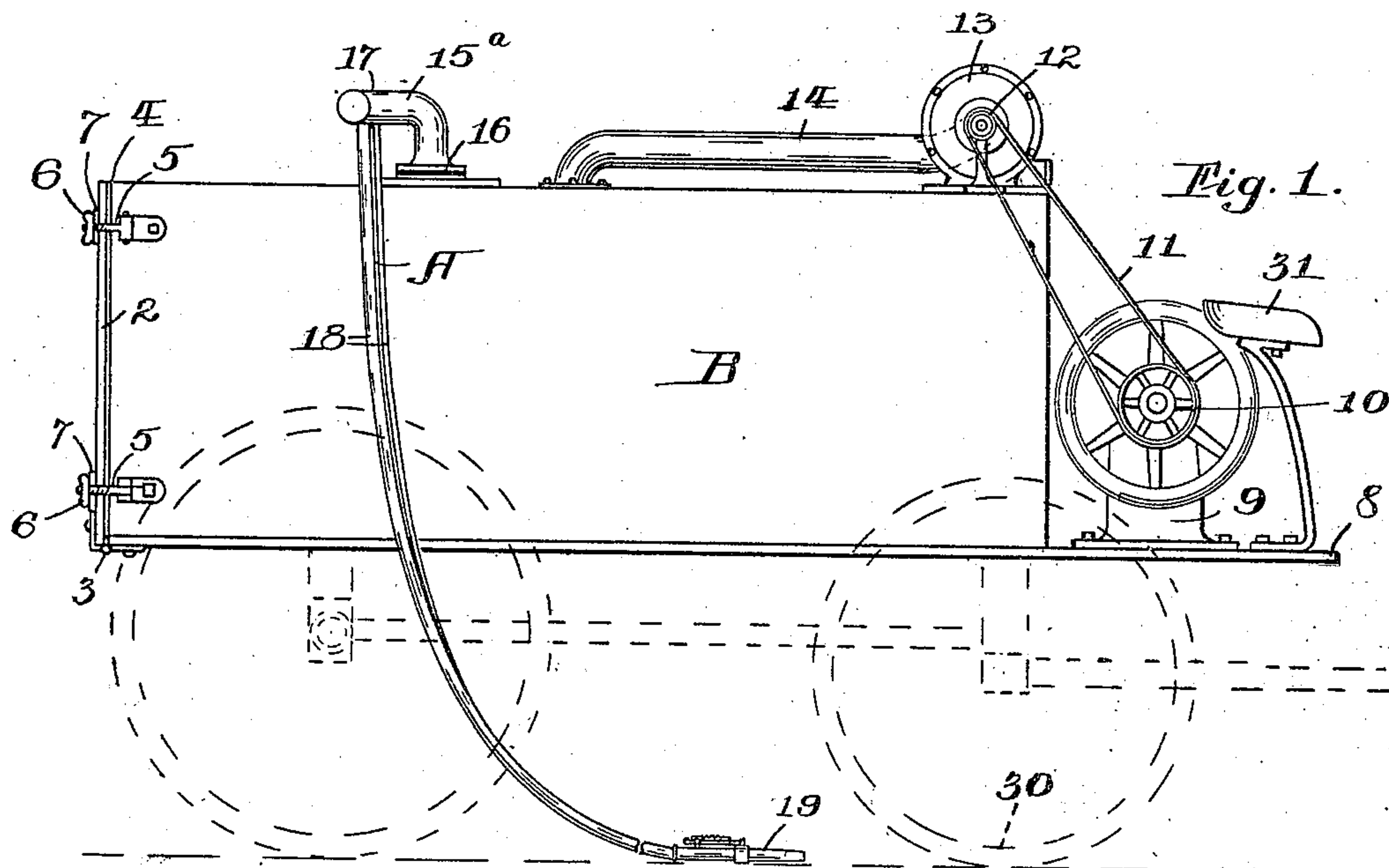


No. 843,546.

PATENTED FEB. 5, 1907.

D. MURPHY.  
COTTON HARVESTER.  
APPLICATION FILED MAR. 18, 1905.

2 SHEETS—SHEET 1.



Witnesses:

E. M. Boesel.  
H. L. Riley

Inventor:

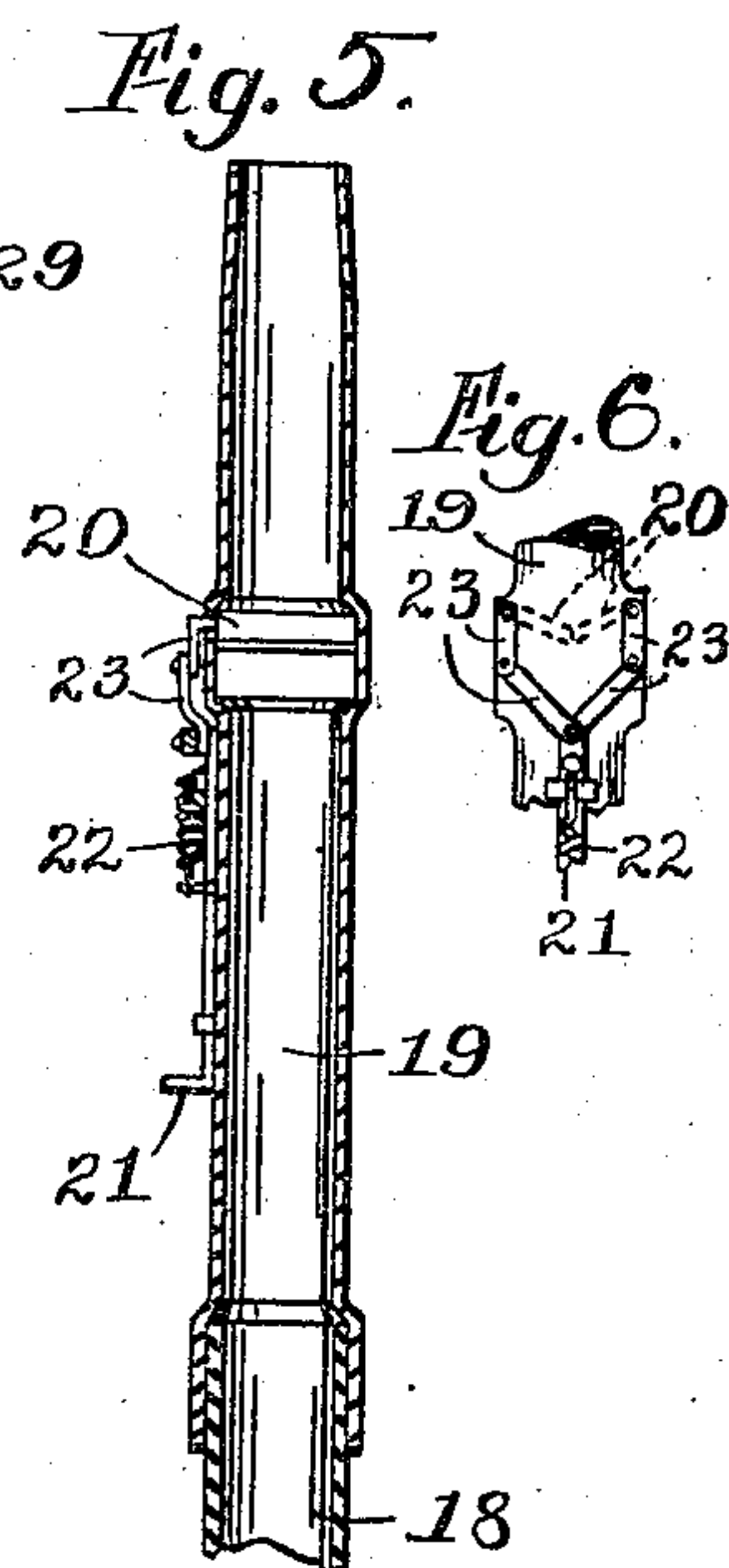
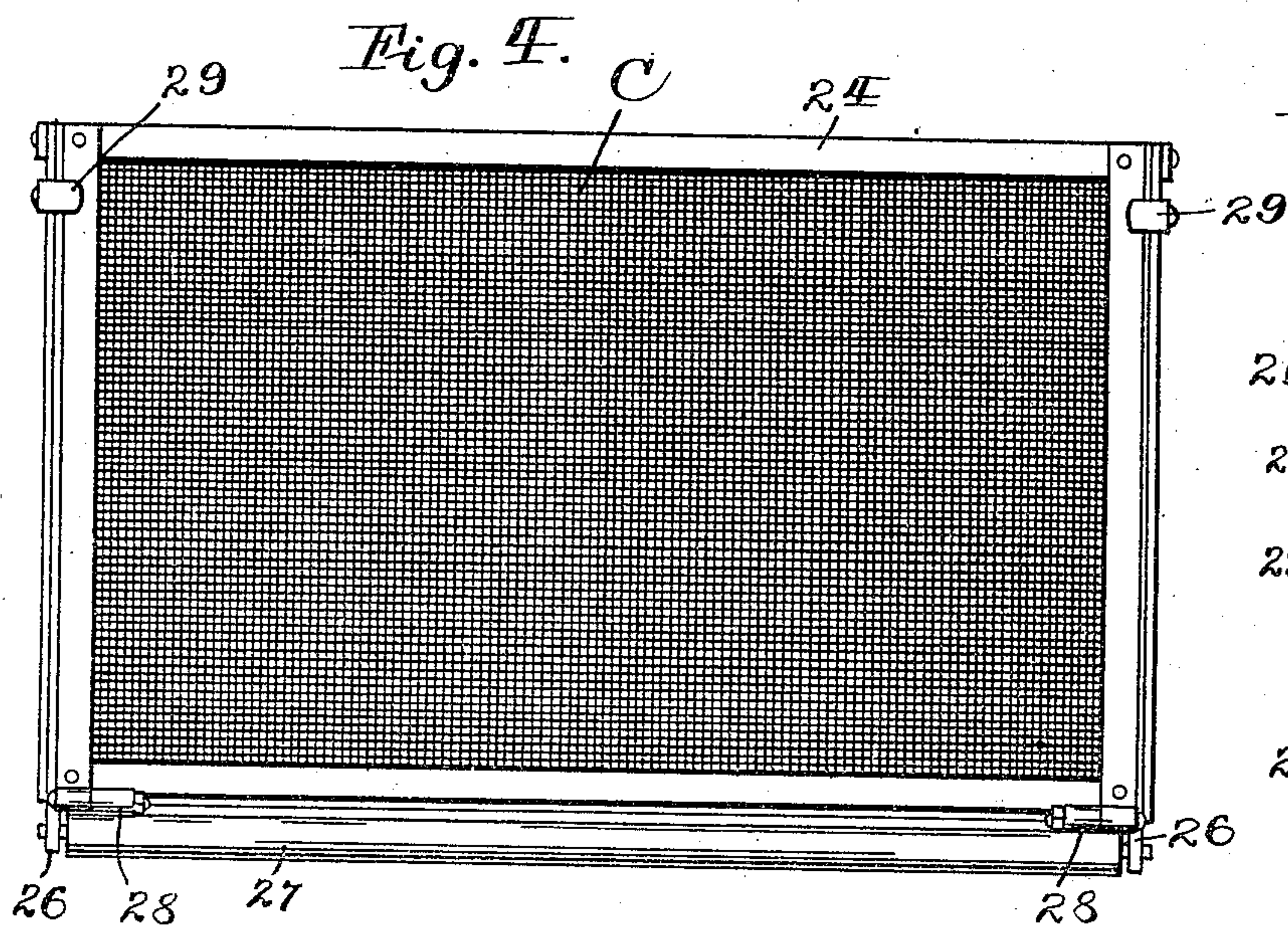
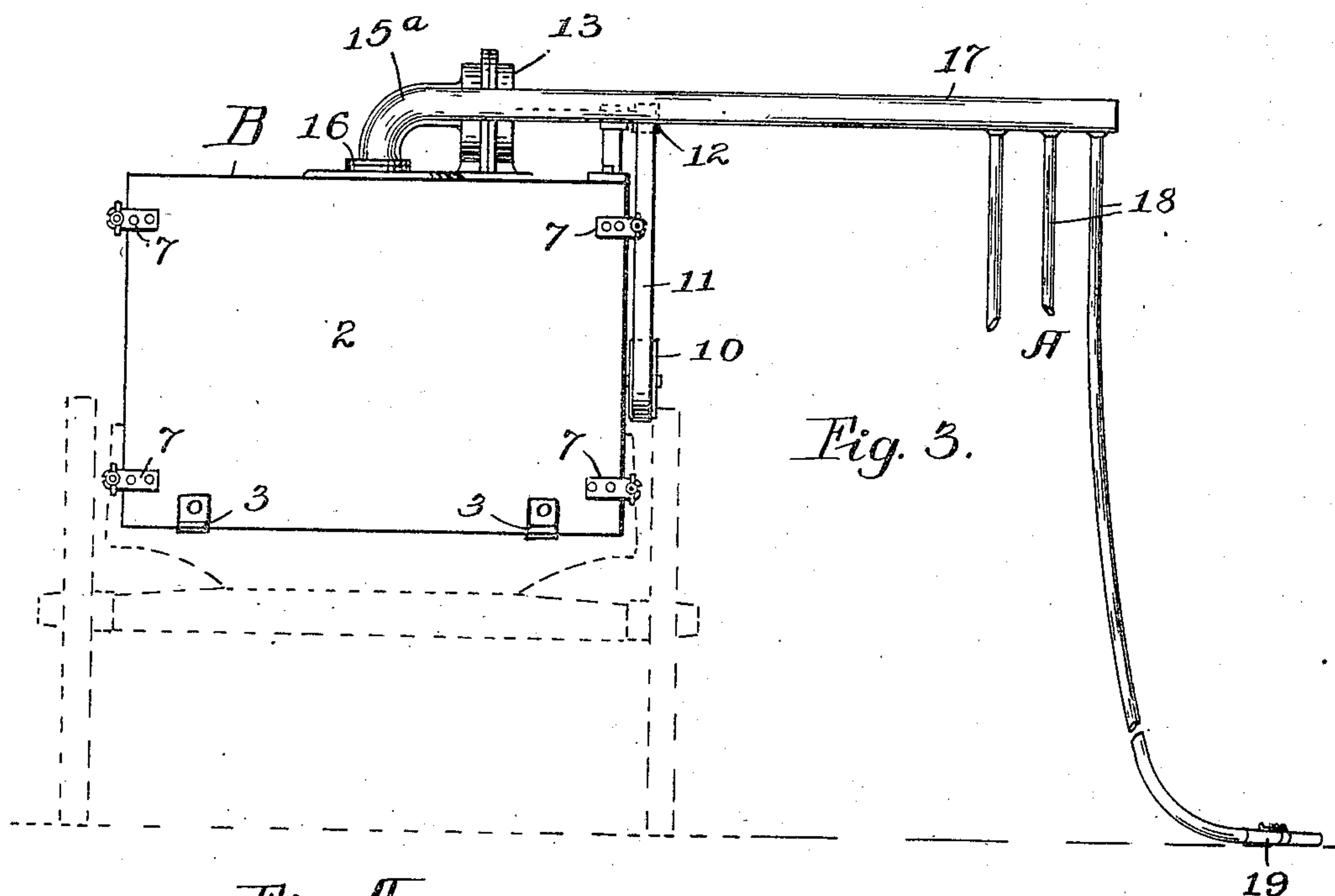
Daniel Murphy,  
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Attorney.

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2 SHEETS—SHEET 2.



Witnesses:

E. M. Bosc.  
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# UNITED STATES PATENT OFFICE.

DANIEL MURPHY, OF ST. PAUL, MINNESOTA.

## COTTON-HARVESTER.

No. 843,546.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed March 18, 1905. Serial No. 250,722.

*To all whom it may concern:*

Be it known that I, DANIEL MURPHY, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Cotton-Harvester, of which the following is a specification.

My invention relates to improvements in cotton-harvesters, and has for its primary object the picking of cotton from cotton-bearing plants.

Further objects are simplicity of construction, effectiveness in use, and the reduction of hand-labor and expense.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view of my invention. Fig. 2 is a longitudinal central section of the exhaust-receptacle for the cotton. Fig. 3 is an end view of Fig. 1. Fig. 4 is an end view of the cage in the receptacle. Fig. 5 is a longitudinal sectional view of one of the intakes, and Fig. 6 is a detail view of one of said intakes.

In a general way, my invention consists of a system of pneumatic cotton-collecting tubes A, which are connected to a portable exhaust-receiver B. Said receiver, as shown, is an oblong box-like structure having at one end a door 2, which is hinged at 3 to the lower wall of said receiver. This door is made to fit tight by means of a gasket 4 and hinged bolts 5, which clamp the door in place by means of thumb-screws 6, bearing against the slotted clips 7, which are fastened on said door. The front end of the receiver is formed with a platform 8, on which is mounted a gasoline-engine 9 or other suitable motive mechanism which has a drive-pulley 10 connected by a belt 11 with another pulley 12, which is carried by the shaft of an exhaust fan or blower 13. Said fan, as shown, is mounted on the top of the receptacle and has its inlet passage-way 14 connected therewith. A screen or perforated plate 15 is placed over the opening leading into said intake for the purpose of preventing cotton being carried out of said receiver. Near the opening into said inlet passage-way and mounted on the top of said receptacle is a swinging pipe 15<sup>a</sup>, which is connected by a swiveled joint 16, so that the horizontal portion 17, which extends a considerable distance beyond the receiver, is adapted to be swung into any desired horizontal position. Depending from said pipe are a plurality of flexible tubes 18, to the free ends of which

are attached intakes 19. Each intake is tapered to reduce the opening at its outer end and is provided with a valve 20, which may be opened by an arm 21. A spring 22, connected on one end of said arm and on its other with said intake, is adapted to close said valve automatically by means of the connecting-links 23.

In the receiver B is a basket C, which is made out of a skeleton frame 24, having its sides and top lined with wire-meshing 25. On the bottom of said basket is a floor, of wood or other suitable material, and journaled in the clips 26 are a series of anti-friction-rollers 27. These rollers permit the basket to slide into and out of the receiver with ease. The end of the basket adjoining the door 2 on the receiver is hinged at 28 and adapted to be held closed by spring-clips 29 on the side walls near the top of the basket. The dimensions and shape of the basket closely conform with the dimensions and shape of the walls of the interior of the receiver. The top of the basket has an opening 32 below the opening leading into the pipe 15<sup>a</sup>.

In use the receiver may be mounted on any suitable truck or wagon, as indicated by the broken lines 30, with the platform near the front end thereof, so that the driver may rest upon the seat 31. The engine 9 is operated to drive the exhaust-blower, which exhausts air out of the receiver and draws air through the intakes when their valves are opened. The pivoted pipe 15<sup>a</sup> may be swung on either side of the receiver and the intakes directed at will toward any desired point upon the cotton-bearing plants to remove the cotton therefrom. Each time the intake is directed toward a pod of cotton the valve 20 is opened by pressing the arm 21 toward the end of said intake by means of the thumb or finger. The cotton so removed passes through the flexible tubes 18 and swinging pipe 15<sup>a</sup> and into the basket C. The air admitted by the intakes passes through the inlet passage-way 14 and out of the exhaust-blower. The distance between the air inlet and outlet of the passage-way 14 and pipe 15<sup>a</sup> and the strength of the current of air produced by the blower is such as when the machine is in operation to cause the cotton to be deposited in the basket. When the basket C is filled with cotton, the door 2 is opened by lowering it and the basket rolled out and carried away. An



empty basket is then replaced in the receiver and the door 2 again closed and sealed.

Having described my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. Apparatus of the class set forth, comprising, in combination, an exhaust-receiver, a removable basket in said receiver, a plurality of antifriction-rollers on said basket, a swinging pipe connected with said receiver and adapted to turn on either side thereof, a flexible suction-tube connected with said swinging pipe, and means for automatically closing said tube.

2. Apparatus of the class set forth, comprising, in combination, a suitable exhaust-receiver, a basket in said receiver, a plurality of antifriction-rollers on said basket, a horizontal pipe pivotally connected with said receiver to swing on either side thereof, a flexible suction-tube connected with the free end of said pipe, and an intake on the free end of said tube.

3. Apparatus of the class set forth, comprising, in combination, a receiver, an exhaust-blower connected with said receiver, means for driving said exhaust-blower, a flexible suction-tube connected with said receiver, an intake on the free end of said tube, a valve in said intake, means for closing said valve, a door on said receiver, a basket in the receiver for the material from the suction-tube, and a plurality of antifriction-rollers on the lower wall of said basket.

4. Apparatus of the class set forth, com-

prising, in combination, a suitable receiver, a door in said receiver, means for holding said door closed, an open-work basket in said receiver having an inlet, a horizontal pipe pivoted upon said receiver to swing on either side thereof and having the passage-way through its pivot end registering with said inlet, a series of antifriction-rollers on the lower wall of said basket, a plurality of suction-tubes connected with the free end of said pipe, an intake on each of said tubes, a valve in each intake, an exhaust-blower connected with the receiver, a strainer over the inlet leading into said exhaust-blower, and means for driving said exhaust-blower.

5. Apparatus of the class set forth, comprising, in combination, a suitable receiver, a door on said receiver, means for sealing said door to close said receiver, a removable basket in said receiver, a plurality of antifriction-rollers on said basket, a suction-pipe pivoted upon the receiver and adapted to swing on either side thereof, a flexible suction-tube connected with the free end of said suction-pipe, an intake on said suction-tube, a valve in said intake, means for automatically closing said valve, and means for exhausting air from said receiver.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL MURPHY.

Witnesses:

E. M. BOESEL,

F. G. BRADBURY.