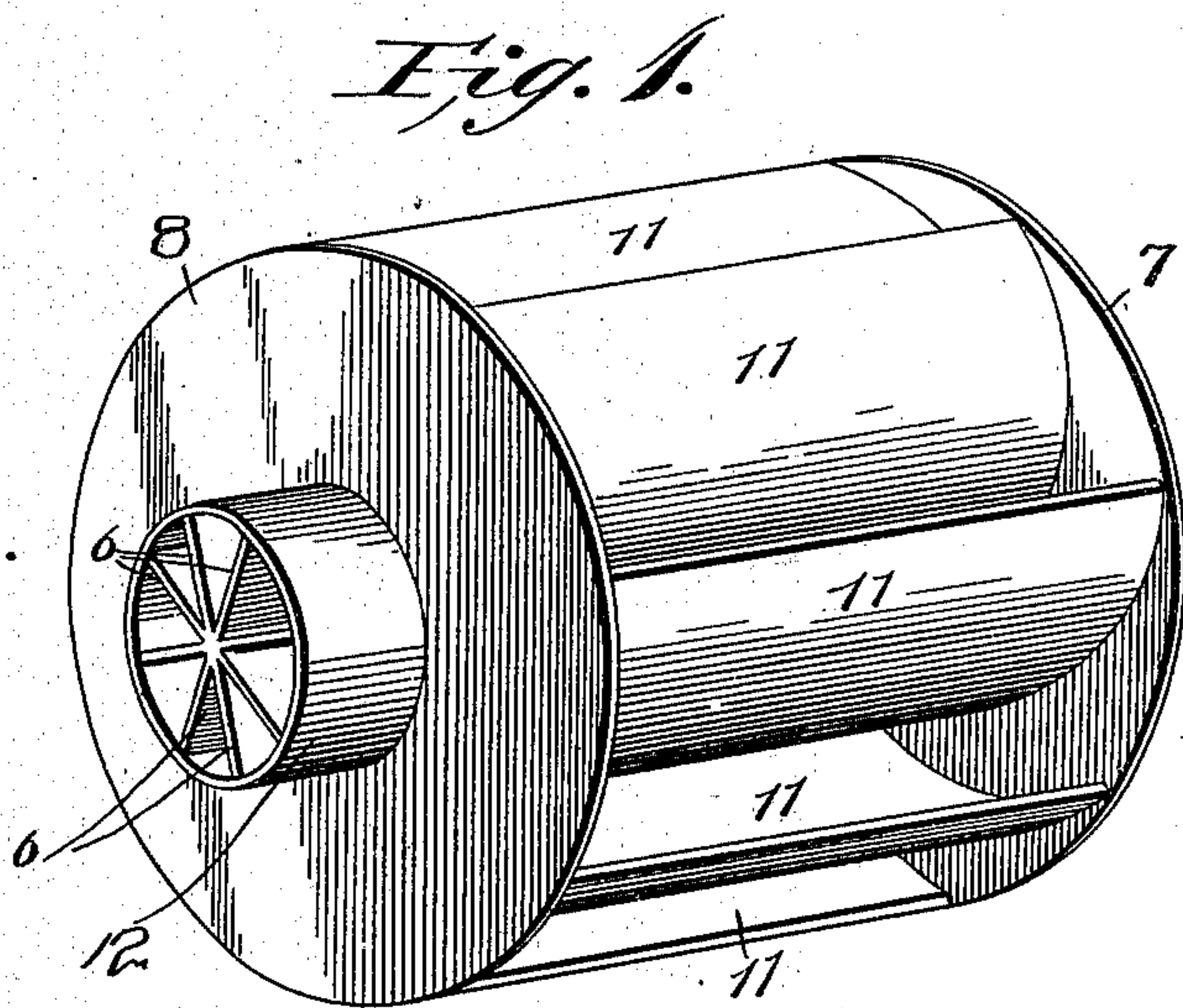
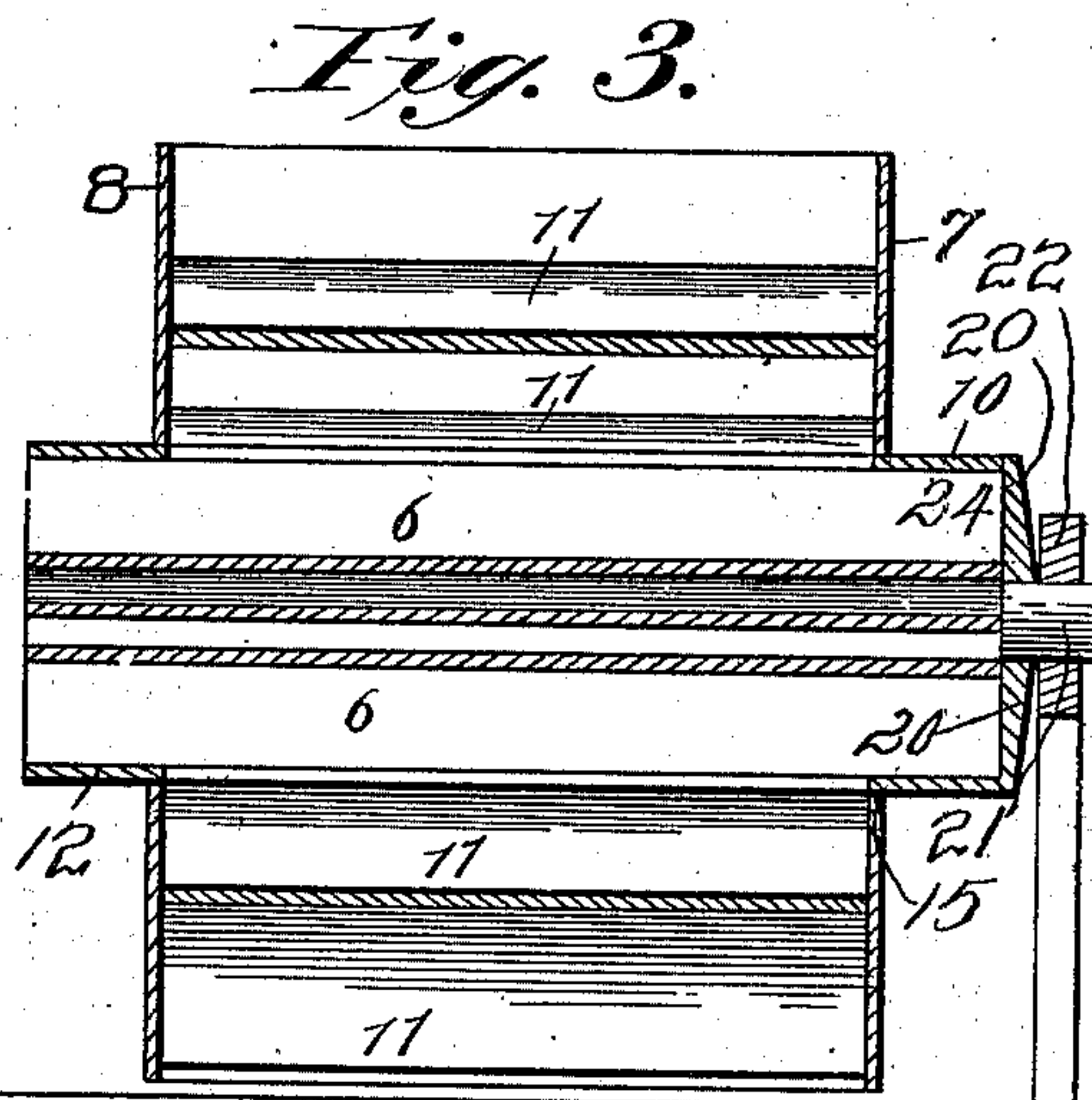
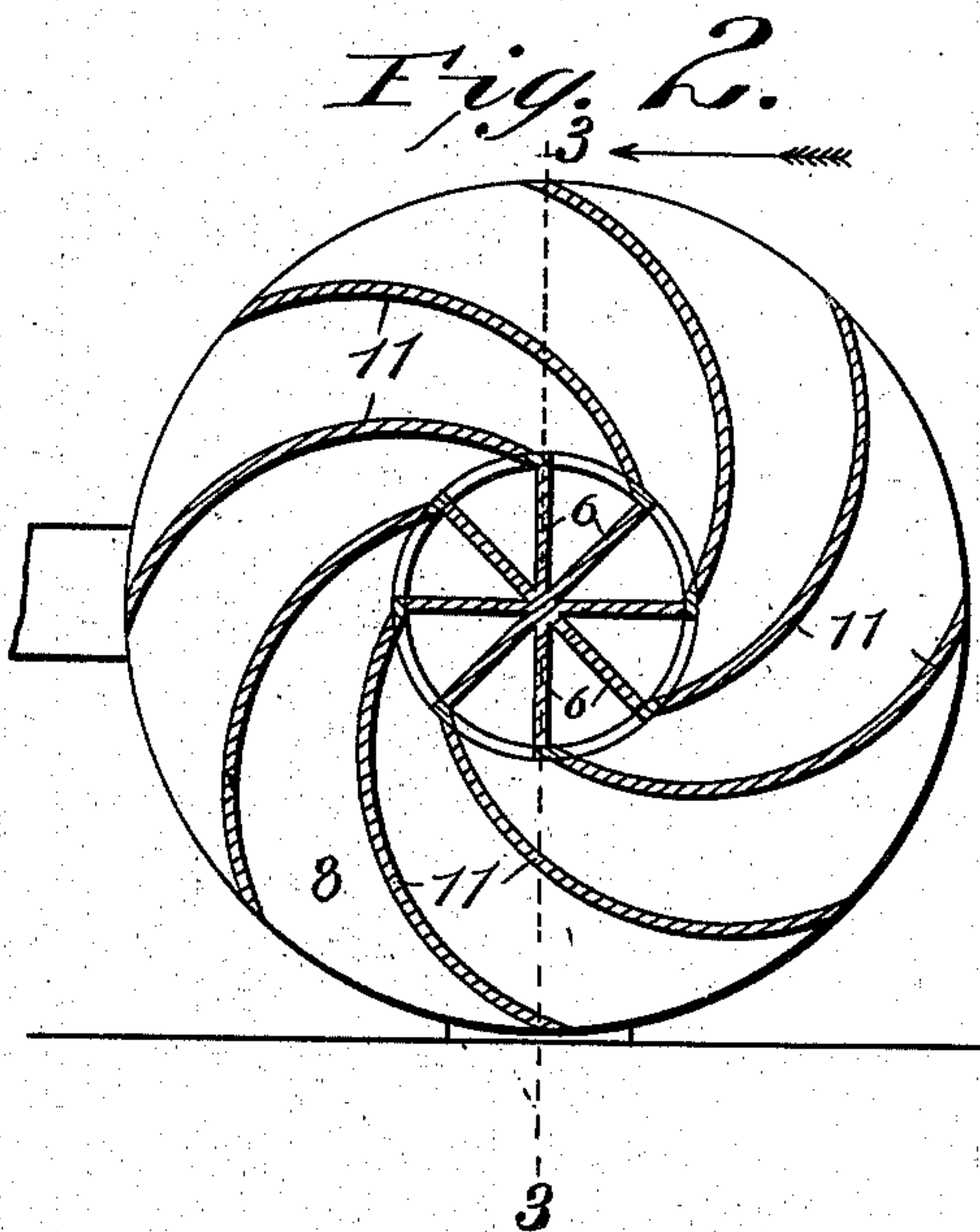


No. 723,341.

PATENTED MAR. 24, 1903.

F. A. TOUPS.  
DRAINING MACHINE.  
APPLICATION FILED NOV. 6, 1900.

NO MODEL.



Witnesses

*L. A. Walker.*  
*Geoff. Chandler.*

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Attorneys



# UNITED STATES PATENT OFFICE.

FELIX A. TOUPS, OF THIBODAUX, LOUISIANA.

## DRAINING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 723,341, dated March 24, 1903.

Application filed November 6, 1900. Serial No. 35,643. (No model.)

*To all whom it may concern:*

Be it known that I, FELIX A. TOUPS, a citizen of the United States, residing at Thibodaux, in the parish of Lafourche and State of Louisiana, have invented a new and useful Draining-Machine, of which the following is a specification.

This invention relates to draining-machines of that class which are used for draining marshes and swampy territory of accumulated water and which while not required to elevate the water to any great height shall be of great capacity, even when operated at a low rate of speed.

My invention embodies in its construction the old-fashioned scoop-wheel, which is provided with a series of scoops or tangential blades which successively engage and elevate the water, discharging the same into a tubular shaft, from one end of which it is eventually discharged and conveyed, usually by means of an inclined trough, to the place of deposit.

My invention consists in the improved construction and arrangement of parts constituting the said device, whereby a simple, durable, and efficient device shall be produced, as will be hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of the scoop-wheel constituting my improved draining-machine. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a longitudinal section taken on the line 3 3 in Fig. 2.

Corresponding parts in the several figures are indicated by like characters of reference.

A series of radial blades 6 6 have their inner edges connected with each other at a common center, as clearly shown in Fig. 2 of the drawings. Mounted upon the ends of said blades and connecting the outer edges of the same are tubular sleeves or drums 10 and 12, the inner edges of which are connected rigidly with disks 7 and 8, having central apertures 15 for the passage of the radial blades, with which they are also firmly connected, either directly or by means of the drums 10 and 12, to the edges of which the

said disks are firmly secured. A series of curved blades or scoops 11 11 are connected at their inner ends with the outer edges of the radial blades 6, the points of contact between said radial blades and scoops extending between the disks 7 and 8, to the inner sides of which the side edges of said blades or scoops are also securely attached. The means of connecting the parts may be varied. In small wheels constructed of sheet metal solder might answer the purpose. In larger wheels constructed of heavier sheet metal, such as boiler-plate, bolts or rivets would be used, or, again, the wheel might be wholly or partially constructed of wood, in which event any suitable connecting means would be employed.

The sleeve or drum 10 at one end of the device is closed at its outer end by a plate 20, which may be provided with a journal 21, supported in a suitable box or bearing 22. A bearing for the opposite end of the device may be formed by the drum of sleeve 12.

The operation of the device will be readily understood. As the device partially submerged is revolved the scoops or blades will elevate the water, discharge the same into the compartments between the radial blades 6, and from thence it will escape through the open end of the sleeve 12.

I am aware that scoop-wheels embodying the general principle of my invention have been known and successfully used for many years prior to my invention; but I am not aware that a scoop-wheel embodying the construction and combination of parts as herein set forth has been ever before known or used.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

A device of the class described, comprising a series of radial blades having their inner edges connected at a common center, cylindrical drums mounted upon the ends of said radial blades, disks mounted upon the inner edges of said cylindrical drums and provided with apertures corresponding with said drums for the passage of the radial blades, curved tangential scoop-blades connected at their in-

ner edges with the outer edges of the radial  
blades and at their side edges with the inner  
sides of the disks, and a closure for the outer  
end of one of the drums, provided with a  
5 trunnion forming one of the bearings of the  
device.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in  
the presence of two witnesses.

FELIX A. TOUPS.

Witnesses:

DENIS CLEMENT,  
CHAS. J. COULON.