

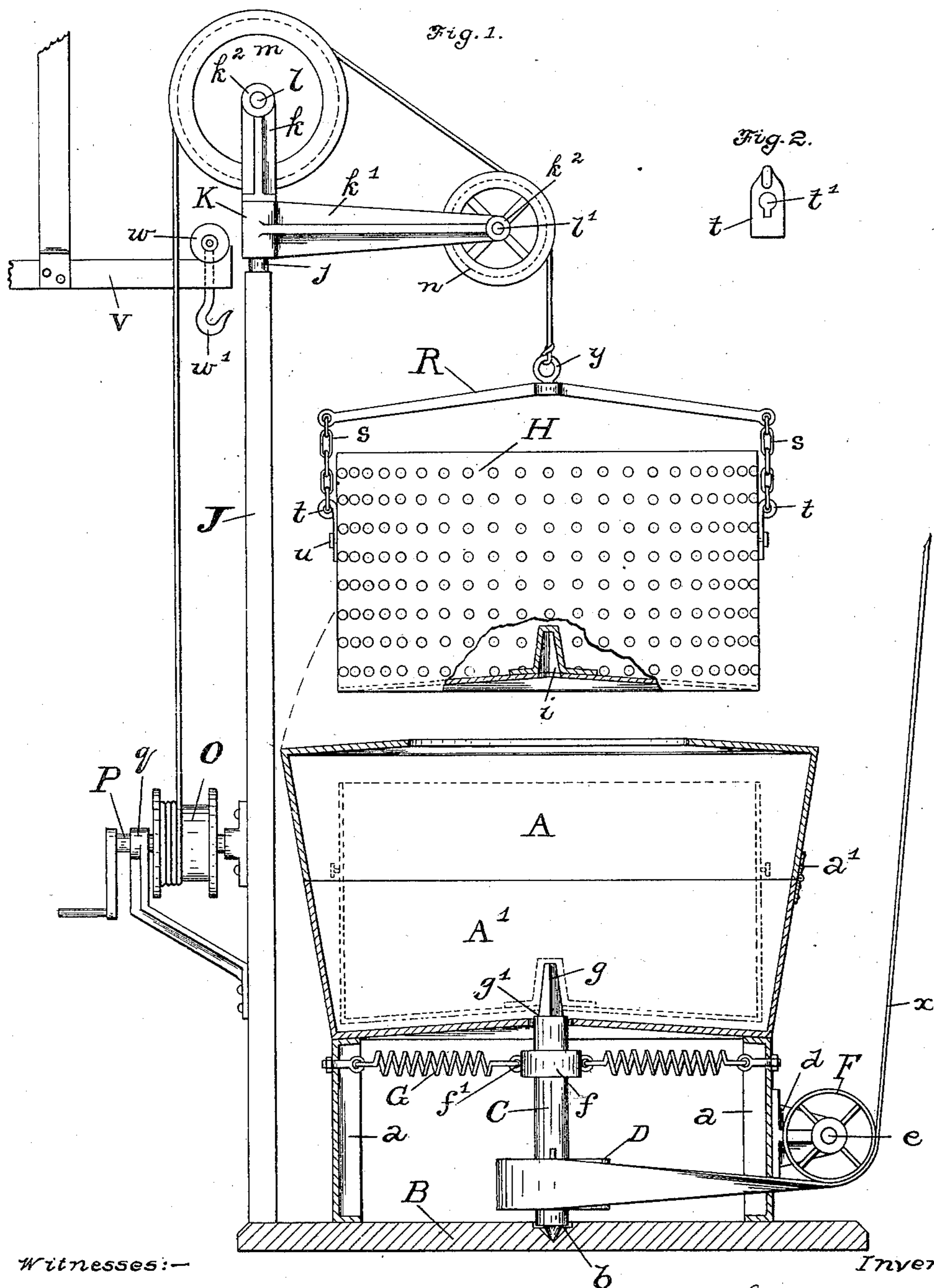
No. 656,908.

Patented Aug. 28, 1900.

L. J. TAYLOR.
CENTRIFUGAL MACHINE.

(Application filed Dec. 22, 1899.)

(No Model.)



Witnesses:—

Charles B. Mann Jr.,
Charles Vietsch.

Inventor:-

Lauren J. Taylor
By Chas B. Mann
Attorney.

UNITED STATES PATENT OFFICE.

LAUREN J. TAYLOR, OF BALTIMORE, MARYLAND.

CENTRIFUGAL MACHINE.

SPECIFICATION forming part of Letters Patent No. 656,908, dated August 28, 1900.

Application filed December 22, 1899. Serial No. 741,230. (No model.)

To all whom it may concern:

Be it known that I, LAUREN J. TAYLOR, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Centrifugal Machines, of which the following is a specification.

My invention relates to improvements in centrifugal machines for separating water from clothes when the same are being washed. Heretofore it has been the custom to place the clothes in a basket within the curb of the machine, subject it to centrifugal action to remove the water, and then scoop out the compacted material or clothes, which is laborious and consumes time.

One of the objects of this invention is to provide a basket or perforated receptacle adapted to be entirely removed from within the stationary curb.

A further object of this invention is to provide means whereby the removable basket with its contents may be placed on a track directed to any desired place, such as a "tumbler," which is used in laundries to separate clothes after they have become compacted together by the centrifugal action of the machine.

My invention is fully set forth in the following specification and drawings, in which—

Figure 1 is a view in sectional elevation of the centrifugal machine, showing my improved mechanism. The basket is shown in an elevated position above the curb. Fig. 2 is a detail of the catch employed for fastening the chains to the basket.

The usual cylindric curb is made in two horizontal sections $A A'$, of which the upper one is removable and preferably hinged to the lower one, the latter being mounted on legs a , which are secured to a suitable base B . In the drawings the hinge a' is shown on the side nearest the belt merely to illustrate it; but in practice this hinge will be placed in a position to permit the upper section A' to be tilted or removed in a direction away from the belt. The base is provided with a central step b , which is the bearing for the lower end of a vertical shaft C . Keyed to this vertical shaft is a pulley D . On one of the legs or posts is a bracket-arm d to support a horizontal shaft e , on which are mounted loose

pulleys F . A belt x from a suitable source of power takes under the loose pulleys and around the pulley D to revolve the shaft. Near the upper end of this vertical shaft is a loose collar f , provided with eyes f' , to which is attached one end of springs or other resilient connection G . The other ends of the springs are suitably secured to the legs a . This arrangement will prevent the shaft from wobbling when turning at a low speed should the center of gravity of the basket and its contents be out of line with the shaft. The upper end of the vertical shaft C has in this instance a square shank g , which tapers from a shoulder g' to the apex of the shank.

The basket or receptacle H , having its wall perforated, is smaller diametrically than the curb and is provided in its bottom with a socket i , which fits on the shank g of the shaft, so as to turn therewith. This construction allows the basket to be lifted off or removed from the shaft. The removable feature of the invention is not, however, limited to this construction.

Mounted uprightly on the base B at the side of the curb is a standard J , having at its upper end a spindle j , which receives a sleeve K , having upward and outward projecting arms $k k'$, which have bearings k^2 to receive shafts $l l'$, each of which supports a pulley $m n$, respectively, in a vertical position. In the present instance the lower portion of the upright standard is provided with a winding-drum O , keyed on a crank-shaft P , mounted in suitable bearings q , secured to the standard. A rope wound on the windlass passes over the pulleys $m n$ and carries a beam R , having on its ends chains s and catch-plates t . These plates are provided with key hole-slots t' , which take over buttons or studs u on the wall of the basket H , when it is desired to remove said basket from the curb.

Secured to the ceiling or other support is a track v , which extends to any desired place and on which travels a roller w , having a pendant hook w' to engage the eye y on the beam R .

The operation of this device is substantially as follows: The material to be operated on— as, for instance, wet clothes—is placed into the basket H , mounted on the vertical shaft C , and the basket is then rotated at a high rate of speed, the fluid being thrown off

through the perforations in the wall of the basket and collected by the curb and conducted off. When the fluid in the material has been thrown off, the top A' of the curb
5 will be removed and the beam R lowered, so that the catch-plates *l* on the chains *s* may be hooked onto the button *u* on the basket to lift it out of the curb, whereupon both the beam and basket may be suspended by the
10 eye *y* engaging the pendent hook of the track-roller *w*, and be thus carried to any desired place.

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

A centrifugal separator having in combination a curb or shell comprising two halves or cylindric sections—a stationary lower sec-

tion and a removable upper section; means for securing said two sections together so as
20 to permit the removal of the upper section; a central vertical shaft having a squared upper end which projects through the bottom of the lower section; a perforated receptacle
25 inclosed within the said two sections and having in its bottom a squared socket which fits down over the squared end of said shaft making a rigid connection therewith; and means for revolving said central shaft.

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

LAUREN J. TAYLOR.

Witnesses:

F. W. BARNACLO,
CHARLES VIETSCH.