

F. BAILEY & F. H. JACKSON.
 APPARATUS FOR STRAINING LIQUIDS.
 APPLICATION FILED OCT. 23, 1909.

1,038,066.

Patented Sept. 10, 1912.

Fig. 1.

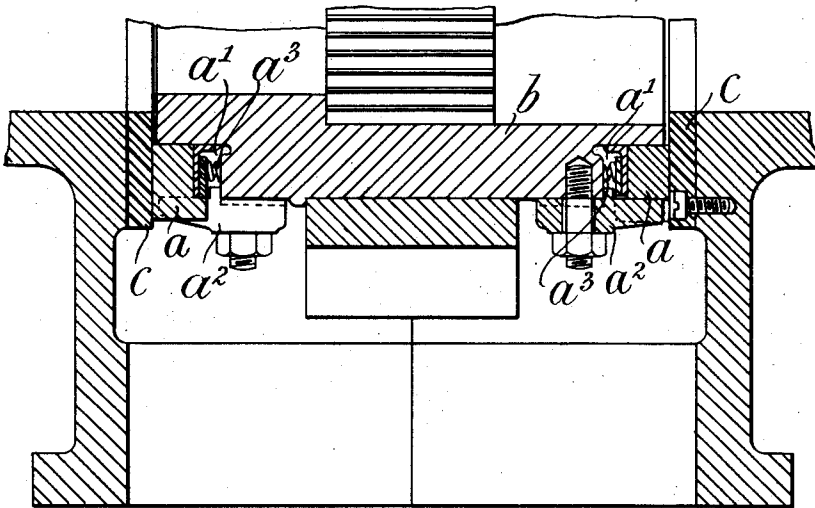


Fig. 2.

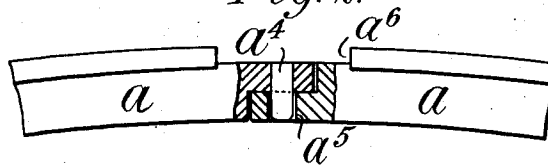


Fig. 3.

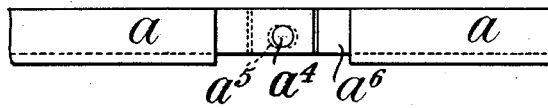
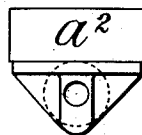


Fig. 4.



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UNITED STATES PATENT OFFICE.

FRANK BAILEY AND FREDERICK HENRY JACKSON, OF LONDON, ENGLAND.

APPARATUS FOR STRAINING LIQUIDS.

1,038,066.

Specification of Letters Patent.

Patented Sept. 10, 1912.

Application filed October 23, 1909. Serial No. 524,137.

To all whom it may concern:

Be it known that we, FRANK BAILEY and FREDERICK HENRY JACKSON, both subjects of the King of Great Britain and Ireland, and residents of 64 Bankside, in the county of London, England, have invented certain new and useful Improvements in Apparatus for Straining Liquids, of which the following is a specification.

10 This invention relates to apparatus for use in straining water or other liquid containing solid substances, as for example river water containing weeds, straw and the like, the apparatus being constructed and operated in such a manner as to render the straining surfaces self-cleansing.

In the specification of our United States Patent No. 943,908, dated December 21, 1909, we have described a self-cleansing strainer wherein a strainer wheel is rotated within a casing formed with inlet and outlet chambers, and our present invention consists in an improved construction of packing-ring which is formed in segments with a view to 25 facilitating the examination and removal thereof.

In the accompanying drawings, Figure 1 is a transverse section of the strainer wheel rim and showing the packing in position. 30 Fig. 2 is a side elevation, partly in section, and Fig. 3 a plan of the joint between two adjacent sections of the packing-ring. Fig. 4 is a plan of the underside of a keep herein-after described.

35 In carrying out our present invention, the several segments a constituting the packing-ring are arranged in a rabbet a' formed in the wheel rim b , each segment being confined in the said rabbet by removable keeps a^2 . 40 In order to maintain the packing-ring segments a in contact with the casing or other rubbing surface c , they are provided at the back with springs a^3 . In order to provide

against the rotation of the segments a independently of the strainer wheel, they are 45 connected with the keeps a^2 in such a manner that while compelled to move with the wheel in a circumferential direction, they are at liberty to move axially in relation thereto.

Figs. 3 and 4 illustrate a joint between 50 two adjacent segments a ; the one section being provided with a pin a^4 which passes into an elongated hole a^5 formed in the other section. The outer face of the ring is recessed at a^6 for the reception of the keep a^2 , 55 a plan of the underside of which is shown in Fig. 4.

What we claim as our invention and desire to secure by Letters Patent is:—

1. A packing device comprising a packing 60 ring formed in segments, connected together at their adjacent extremities and provided with keeps respectively adapted to retain the said segments laterally in position in the wheel or other body to which they 65 are applied and to prevent their circumferential movement therein.

2. A packing device for a rotatable wheel comprising a packing ring formed in segments, perforated overlapping portions at 7 the adjacent ends of said segments, pins in the perforations for locking said overlapping portions, and removable keeps bolted to said rotatable member, having portions adapted to project into recesses in said segments at their overlapping portions, whereby circumferential travel of the segments is prevented.

In testimony whereof we have signed our names to this specification in the presence of 8 two subscribing witnesses.

FRANK BAILEY.

FREDERICK HENRY JACKSON.

Witnesses:

EDWARD HAY,
SIDNEY PAINE.