

June 19, 1923.

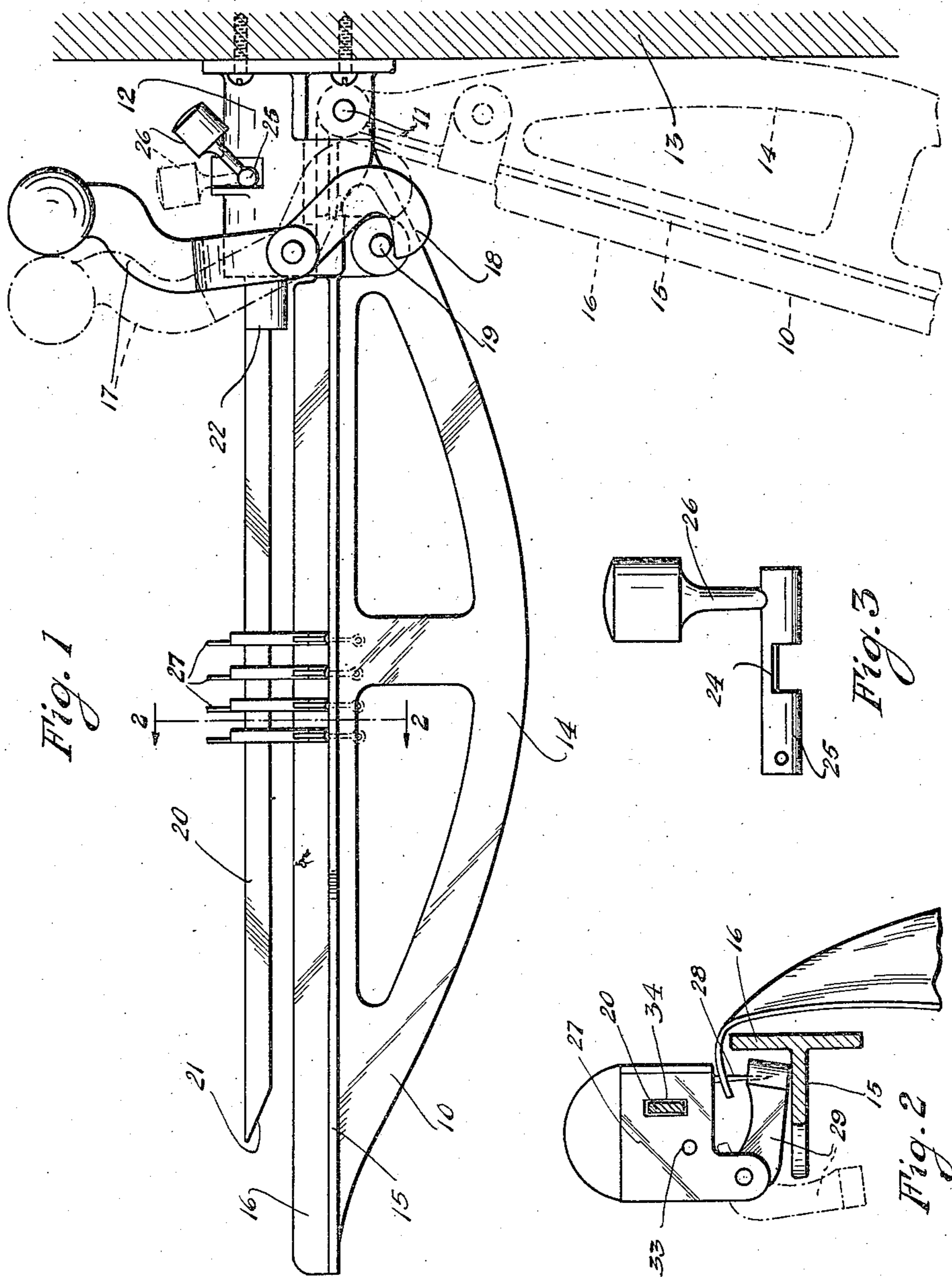
1,459,205

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LAUNDRY SORTING APPLIANCE

Filed May 19, 1922

2 Sheets-Sheet 1



Witnesses:

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Angus F. Hanney
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 His Attorney

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2 Sheets-Sheet 2

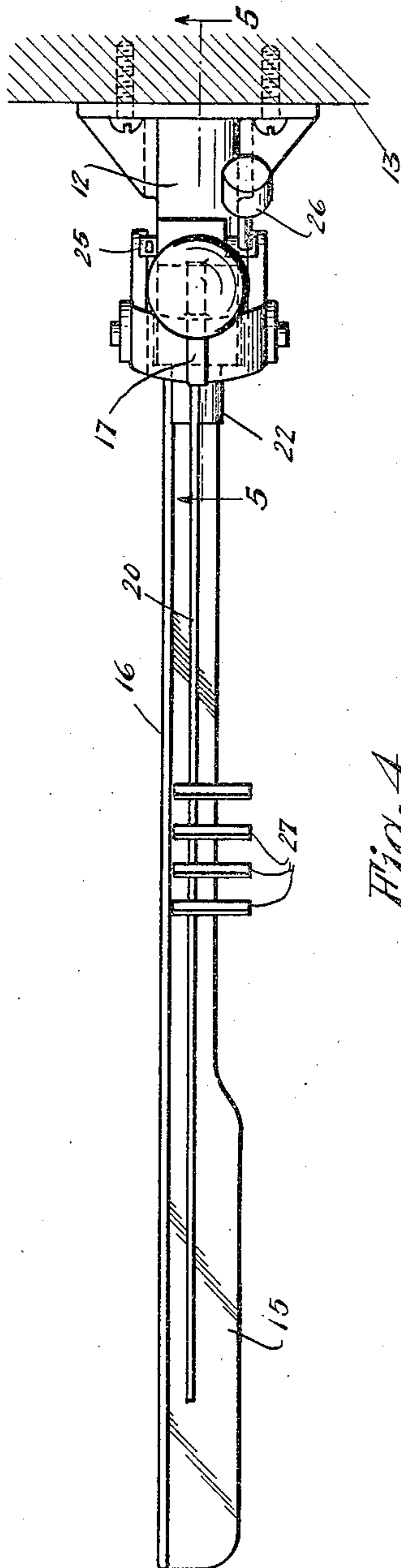


Fig. 4

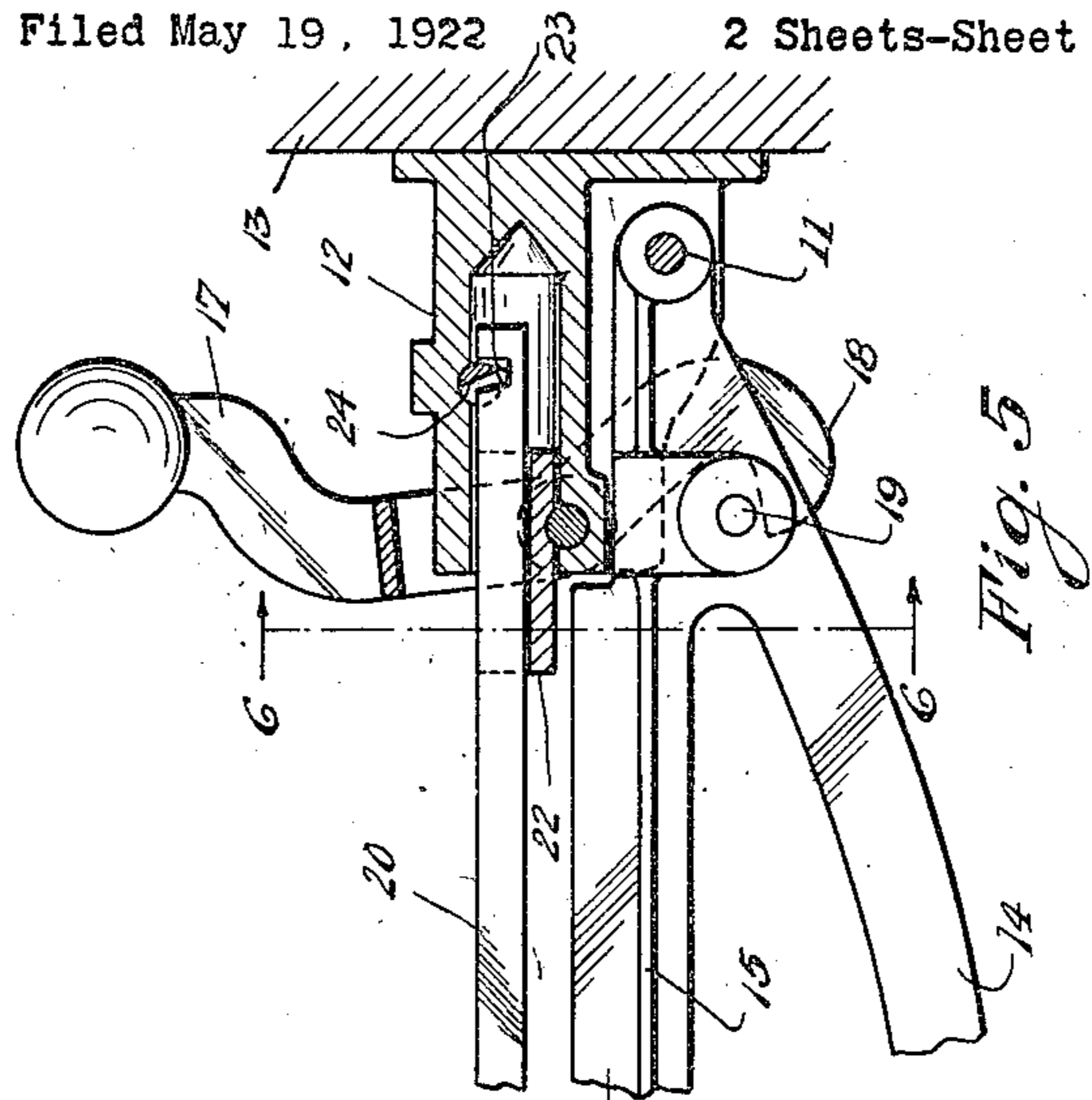


Fig. 5

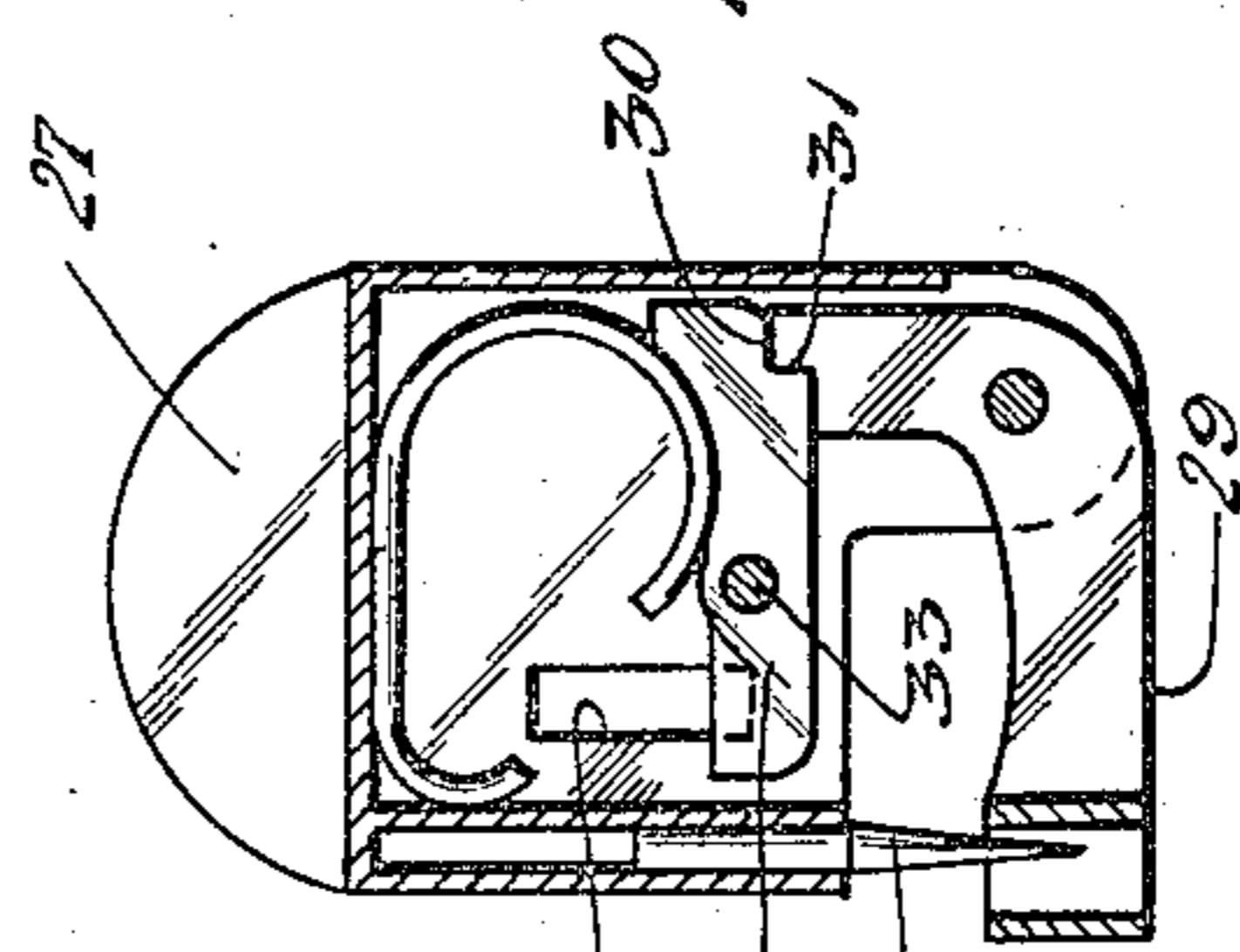


Fig. 7

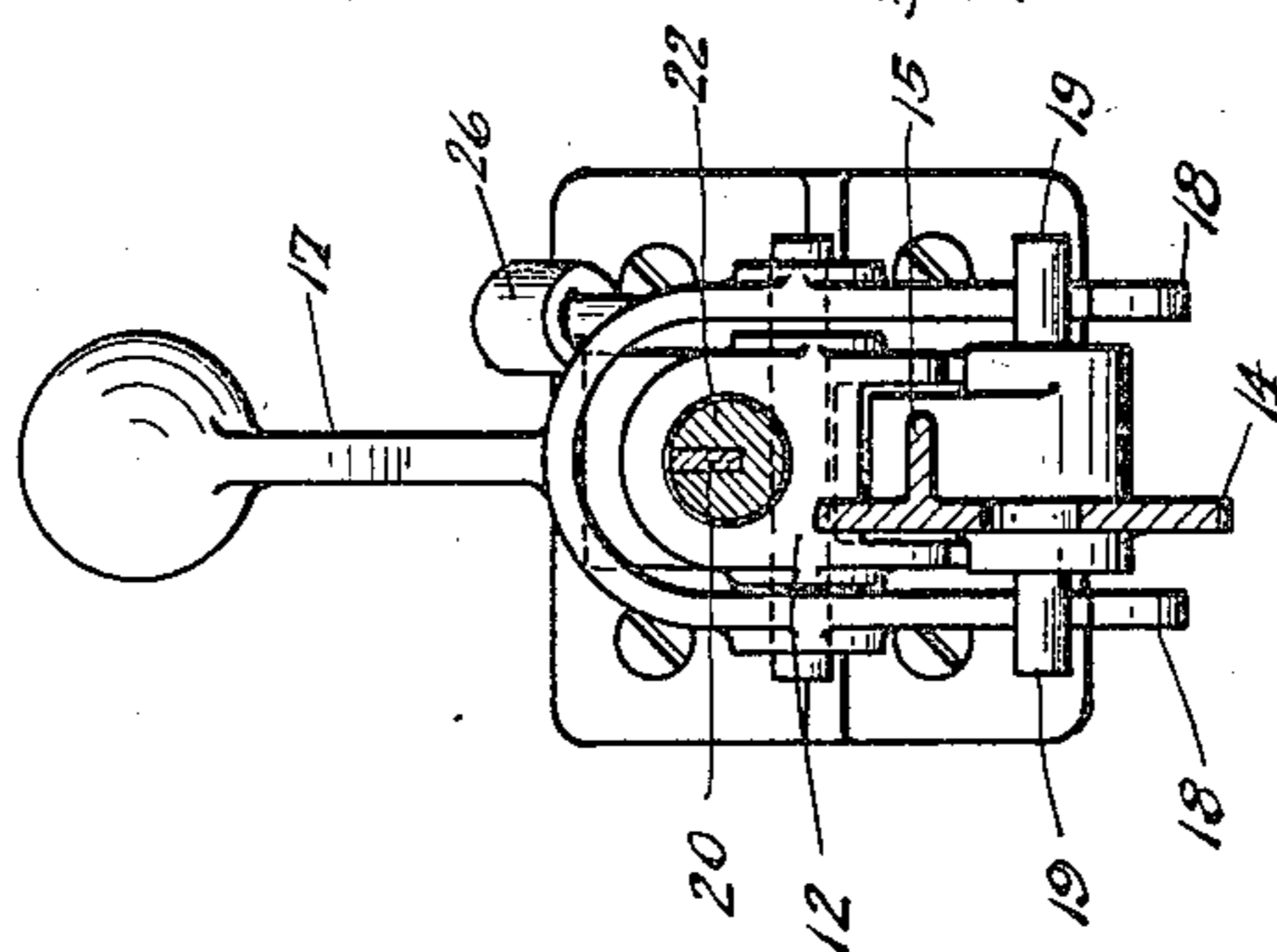


Fig. 6

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1,459,205

UNITED STATES PATENT OFFICE.

ANGUS F. HANNEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO EUREKA ROUGH DRY PIN SYSTEM CO., OF CHICAGO, ILLINOIS.

LAUNDRY-SORTING APPLIANCE.

Application filed May 19, 1922. Serial No. 562,247.

To all whom it may concern:

Be it known that I, ANGUS F. HANNEY, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Laundry-Sorting Appliances, of which the following is a specification.

This invention relates to laundry sorting appliances and has for its object the provision of a sorting rack for garments which previously have had identification means attached thereto, said rack being arranged to release the identification means when placed thereon, and at the same time retain the garments in connection with the identification means; and when desired the garments may be released from the rack simultaneously.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1, is a side elevation of the invention showing the same in operative position in full lines and in inoperative position in dotted lines,

Fig. 2, is a section on line 2—2, Fig. 1,

Fig. 3, is a detail view of a latching device used in connection with the invention,

Fig. 4, is a top plan view of the invention,

Fig. 5, is a fragmentary view of the invention showing parts of same in section,

Fig. 6, is a section on the line 6—6, Fig. 5, and

Fig. 7, is a view partly in section of the identification means used in connection with the invention, showing the interior mechanism thereof.

The preferred form of construction comprises an arm 10, pivoted at 11 to a suitable bracket 12 fastened by any suitable means to a support 13, such arm preferably being reinforced by means of a truss 14, as shown. The arm 10 in effect forms an auxiliary supporting means to be employed in conjunction with a main supporting means, hereafter described, disposed there above, and said arm will be broadly referred to in the claims as auxiliary supporting means. The upper edge of the arm 10 is preferably

provided with a lateral flange 15, and at one side of the flange 15 is provided an up-standing rib 16, the purpose of such flange and rib being hereinafter explained. Preferably straddling the bracket 12 is a pivotally mounted lever 17, which may be bifurcated, as shown, the bifurcated ends of such lever preferably being turned and formed into hooks 18, which hooks are adapted to engage pins 19 mounted on the arm 10, so that the arm is normally held in operative position. As soon as the hooks 18 are disengaged by operating the lever 17, the arm 10 drops of its own weight.

Preferably mounted above the arm 10 and in offset position with respect to the rib 16 thereof is a receiving rod 20, which forms the main or stationary supporting means above referred to, and will be broadly referred to in the claims as supporting means. This rod is preferably flat and has its outer end bevelled, as shown at 21. The inner end of the rod 20 preferably extends through a slotted boss 22 mounted in the bracket 12. The end of the rod 20 preferably has a notch 23 therein adapted to receive a cam portion 24 formed on a shaft 25 which extends through the bracket 12, there preferably being a weighted lever 26 on the shaft 25 so as to normally retain the cam portion 24 in engagement with the notch 23.

It is understood that with the construction so far described various forms of fastening means may be utilized therewith, but the device is particularly adapted for use in connection with identification means of the type disclosed in my co-pending application, Serial No. 400,859, filed August 2, 1920. Such identification means preferably consists of a flat casing 27 upon which may be stamped suitable identification indicia. A member 28 is secured to the casing so as to project outwardly therefrom, and co-operating with the member 28 is a locking lever 29 pivoted at the lower side of the tag and preferably having an eyelet at its free end adapted to fit over the member 28 to hold the tag in engagement with a garment. The lever 29 and member 28 form holding means which will be broadly referred to in the claims as retaining means, and it will be seen that when the auxiliary supporting means is in inoperative position, the lever 29 will normally hang in non-engaging position. Locking means is provided for the

lever 29 which consists of a lug 30 thereon adapted to project into a notch 31 in a spring-held detent 32, such detent being pivoted at 33 in said casing. The casing is
 5 provided with a slot 34 and one end of the detent 32 is arranged to traverse the lower end of said slot, the arrangement being such that pressure upon said detent releases lever
 10 29 and permits same to swing outwardly thereby releasing the garment connected thereto.

In use when it is desired to place a garment having certain identification means similar to that above described, upon a particular rack the garment is placed at one
 15 side of the rib 16 on the arm 10, and the identification means upon the opposite side of the rib and slid along the arm 10 until the aperture 34 is engaged by the rod 21,
 20 which rod actuates the detent 32 and releases the lever 29, the portion of the arm extending immediately beneath the lever preventing dropping thereof; consequently the garment and identification means is held upon
 25 the rack, and any suitable number of such garments may be placed on said rack in a similar manner, the operation of placing same thereon in each case releasing the means for locking the lever but preventing
 30 outward swinging of said lever through contact with the arm 10. When a suitable number of garments has been placed on the rack during sorting and it is desired to remove same from the rack it is only necessary to
 35 release the arm 10 by tripping the lever 17, which simultaneously releases the garments from the identification means and from the rack, the identification means being retained upon the rod 20 so that all the identification
 40 means of one particular kind are conveniently arranged for further use.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of
 45 variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and
 50 modifications as come within the scope of the appended claims.

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

55 1. A laundry sorting rack comprising supporting means for receiving garments thereon; and auxiliary supporting means disposed beneath said first mentioned supporting means and offset with respect
 60 thereto.

2. A laundry sorting rack comprising supporting means for receiving garments thereon; and auxiliary supporting means disposed adjacent to said first mentioned
 65 supporting means and offset with respect

thereto, the offset portion of said auxiliary supporting means having an upstanding member thereon.

3. A laundry sorting rack comprising supporting means; auxiliary supporting
 70 means disposed adjacent to said first mentioned supporting means and being offset with respect thereto; and means for holding garments between said supporting means.

4. A laundry sorting rack comprising
 75 supporting means; auxiliary supporting means disposed adjacent to said first mentioned supporting means; means for fastening garments between said supporting
 80 means; and means for releasing said auxiliary supporting means for releasing said garments.

5. A laundry sorting rack comprising supporting means; auxiliary supporting
 85 means mounted adjacent first mentioned supporting means, and having a portion thereof offset with respect thereto; means for securing garments between said supporting means; and means for releasing
 90 said auxiliary supporting means for releasing said garments.

6. A laundry sorting rack comprising supporting means; auxiliary supporting
 95 means mounted adjacent first mentioned supporting means, and having a portion thereof offset with respect thereto, said offset portion having an upstanding member thereon; means for securing garments between said supports; and means for releasing
 100 said auxiliary supporting means for simultaneously releasing said garments.

7. A laundry sorting rack comprising supporting means adapted to have garments
 105 mounted thereon; means for rotating said garments on said supporting means; and auxiliary supporting means for maintaining said retaining means in operative position.

8. A laundry sorting rack comprising supporting means adapted to have garments
 110 mounted thereon; means for retaining said garments on said supporting means; auxiliary supporting means for maintaining said retaining means in operative position; and means for moving said auxiliary supporting means to release said retaining
 115 means.

9. A laundry sorting rack comprising supporting means adapted to have garments
 120 mounted thereon; means for retaining said garments on said supporting means; and auxiliary supporting means mounted adjacent first named supporting means for maintaining said retaining means in operative position, said auxiliary supporting means having a portion offset with respect to said
 125 retaining means to relieve said retaining means of a portion of the weight of said garments.

10. A laundry sorting rack comprising supporting means adapted to have garments
 130

mounted thereon; means for retaining said garments on said supporting means, auxiliary supporting means mounted adjacent first named supporting means for maintaining
 5 said retaining means in operative position, said auxiliary supporting means having a portion offset with respect to said retaining means to relieve said retaining means of a portion of the weight of said garments; and
 10 means for moving said auxiliary supporting means to release said retaining means.

11. A laundry sorting rack comprising supporting means adapted to have garments mounted thereon; means for retaining said
 15 garments on said supporting means, and auxiliary supporting means mounted adjacent said first mentioned means for maintaining said retaining means in operative position, said auxiliary supporting means
 20 having a portion offset with respect to first mentioned supporting means, there being an upstanding member on said offset portion.

12. A laundry sorting rack comprising supporting means adapted to have garments
 25 mounted thereon; means for retaining said garments on said supporting means, said retaining means being in nonengaging position; auxiliary supporting means mounted adjacent said first mentioned means for
 30 maintaining said retaining means in operative position, said auxiliary supporting means having a portion offset with respect to first mentioned supporting means, there being an upstanding member on said offset
 35 portion; and means for moving said auxiliary supporting means to release said retaining means.

13. A laundry sorting rack comprising supporting means; identification means, hav-
 40 ing means for locking same into a garment, said identification means being adapted to be placed on said supporting means, the operation of so placing said identification means on said supporting means unlocking the
 45 same; and means for maintaining said garments in contact with said identification means despite the release of said locking means.

14. A laundry sorting rack comprising
 50 supporting means; identification means, having means for locking same to a garment, said identification means being adapted to be placed on said supporting means, the operation of so placing said identification
 55 means on said supporting means unlocking same; means for maintaining said garments in contact with said identification means despite the release of said locking means; and means for relieving the weight of said gar-
 60 ments from said identification means.

15. A laundry sorting rack comprising supporting means; identification means, having means for locking same to a garment, said identification means being adapted to
 65 be placed on said supporting means, the op-

eration of so placing said identification means on said supporting means unlocking same; means for maintaining said garments in contact with said identification means de-
 spite the release of said locking means; and
 70 means for releasing said maintaining means to simultaneously release said garments.

16. A laundry sorting rack comprising supporting means; identification means hav-
 ing movable means for securing a garment
 75 thereto; and means adjacent said supporting means for maintaining said movable means in operative engagement with said garment.

17. A laundry sorting rack comprising supporting means; identification means hav-
 ing movable means for securing a garment
 80 thereto; means adjacent said supporting means for maintaining said movable means in operative engagement with said garment; and means for releasing said maintaining
 85 means to release said movable means and said garments.

18. A laundry sorting rack comprising supporting means; identification means hav-
 ing movable means for securing a garment
 90 thereto; means for locking said movable means to said garment; means for unlocking said movable means; and means for main-
 taining said movable means in operative po-
 95 sition despite the release of said movable means.

19. A laundry sorting rack comprising supporting means; identification means hav-
 ing movable means for securing a garment
 100 thereto; means for locking said movable means to said garment; means for unlocking said movable means; means for maintaining said movable means in operative position de-
 spite the release of said movable means; and
 105 means for releasing said maintaining means to simultaneously release said movable means and said garments.

20. A laundry sorting rack comprising supporting means; identification means hav-
 ing movable means for securing a garment
 110 thereto; means for locking said movable means to said garment; means for unlocking said movable means; means for maintaining said movable means in operative position de-
 spite the release of said movable means; and
 115 means for relieving the weight of said garment on said movable means when held on said supporting means.

21. A laundry sorting rack comprising supporting means detachably mounted in
 120 operative position; identification means having movable means for securing a garment thereto; means for locking said movable means to said garment; means for unlock-
 ing said movable means; and means for
 125 maintaining said movable means in operative position despite the release of said movable means, said supporting means being detach-
 able with said identification means in posi-
 130 tion thereon.

22. A laundry sorting rack comprising a stationary support; a swinging arm mounted beneath said support; fastening means mounted on said stationary support
5 having a swinging lever thereon adapted in closed position to hold the garment thereto, said lever being adapted to rest on said arm to hold same in closed position, swinging of
10 said arm to inoperative position releasing said levers and the garments held thereby.

23. A laundry sorting rack comprising a stationary support; a swinging arm mounted beneath said support; fastening means mounted on said stationary support
15 having a swinging lever thereon adapted in closed position to hold the garment thereto, said lever adapted to rest on said arm to hold same in closed position, swinging of said arm to inoperative position releasing
20 said levers and the garments held thereby; and a bifurcated lever mounted on said support having means thereon for holding said swinging arm in operative position, movement of said lever to inoperative position
25 permitting said arm to fall of its own weight.

24. A laundry sorting rack comprising a support; fastening means adapted to be mounted on said support, said fastening
30 means having a swinging lever adapted in operative position to secure a garment thereto; a swinging arm disposed beneath said support and adapted in operative position to hold said levers in closed position to re-
35 tain said garment in connection therewith; and an upstanding rib on said arm disposed at one side of said fastening means, so that garments secured to said fastening means extend over said rib to relieve said fasten-
40 ing means of the weight thereon.

25. A laundry sorting rack comprising a support; fastening means adapted to be mounted on said support, said fastening means having a swinging lever adapted in
45 operative position to secure a garment thereto; a swinging arm disposed beneath said support and adapted in operative position to hold said levers in closed position to retain said garment in connection therewith; an
50 upstanding rib on said arm disposed at one side of said fastening means, so that garments secured to said fastening means extend over said rib to relieve said fastening means of the weight thereon; and a lever
55 having means for holding said arm in operative position, operation of said lever

permitting said arm to fall of its own weight, thereby releasing the levers of said fastening means and the garments held thereon.

26. A laundry sorting rack comprising a stationary support; identification means having a swinging lever thereon for secur-
ing said lever to a garment; means for lock-
ing said lever in operative position; means
65 for tripping said locking means by plac- ing said fastening means on said station- ary support; an arm adapted to hold said levers in operative position despite the re-
70 lease of said locking means; and a lever having means for holding said arm in opera- tive position, release of said lever causing said arm to fall of its own weight and per- mit the fall of said fastening lever, and the
75 release of the garments held thereby.

27. A laundry sorting rack comprising a stationary support; identification means having a lever thereon adapted to secure a garment thereto; means for locking said
80 lever in operative position, said locking means being adapted to be released by plac- ing said identification means on said sta- tionary support; an arm disposed beneath said stationary support and adapted to hold
85 said levers in operative position despite the release of said locking means; and a rib at one side of said arm and said identification means over which the garment is adapted to extend; and means for releasing said arm
90 to release the levers of said identification means, and the garments connected there- with.

28. A laundry sorting rack comprising a support; a plurality of identification means, each having movable means for securing a
95 garment thereto; means for locking said movable means in position; means for un- locking said movable means by placing said identification means on said support; means
100 for maintaining said movable means in operative position despite the release of said movable means; and means for releasing said maintaining means to simultaneously release said movable means.

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

ANGUS F. HANNEY.

Witnesses:

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BRAYTON G. RICHARDS.