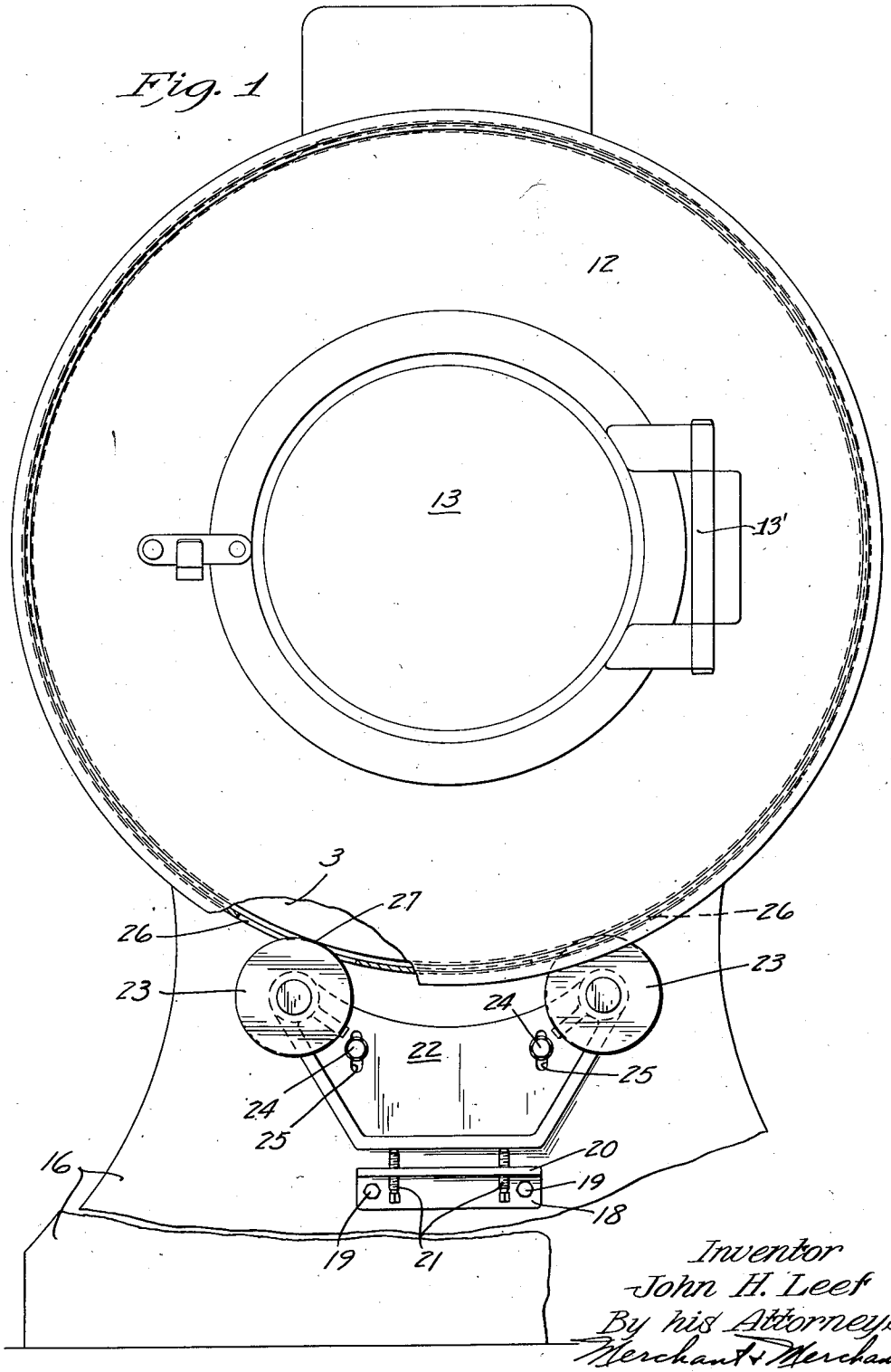
March 18, 1952 J. H. LEEF 2,589,619

ATTACHMENT FOR LAUNDRY MACHINES

Filed April 9, 1949 2 SHEETS—SHEET 1

Fig. 1



Inventor
John H. Leef
By his Attorneys
Merchant & Merchant

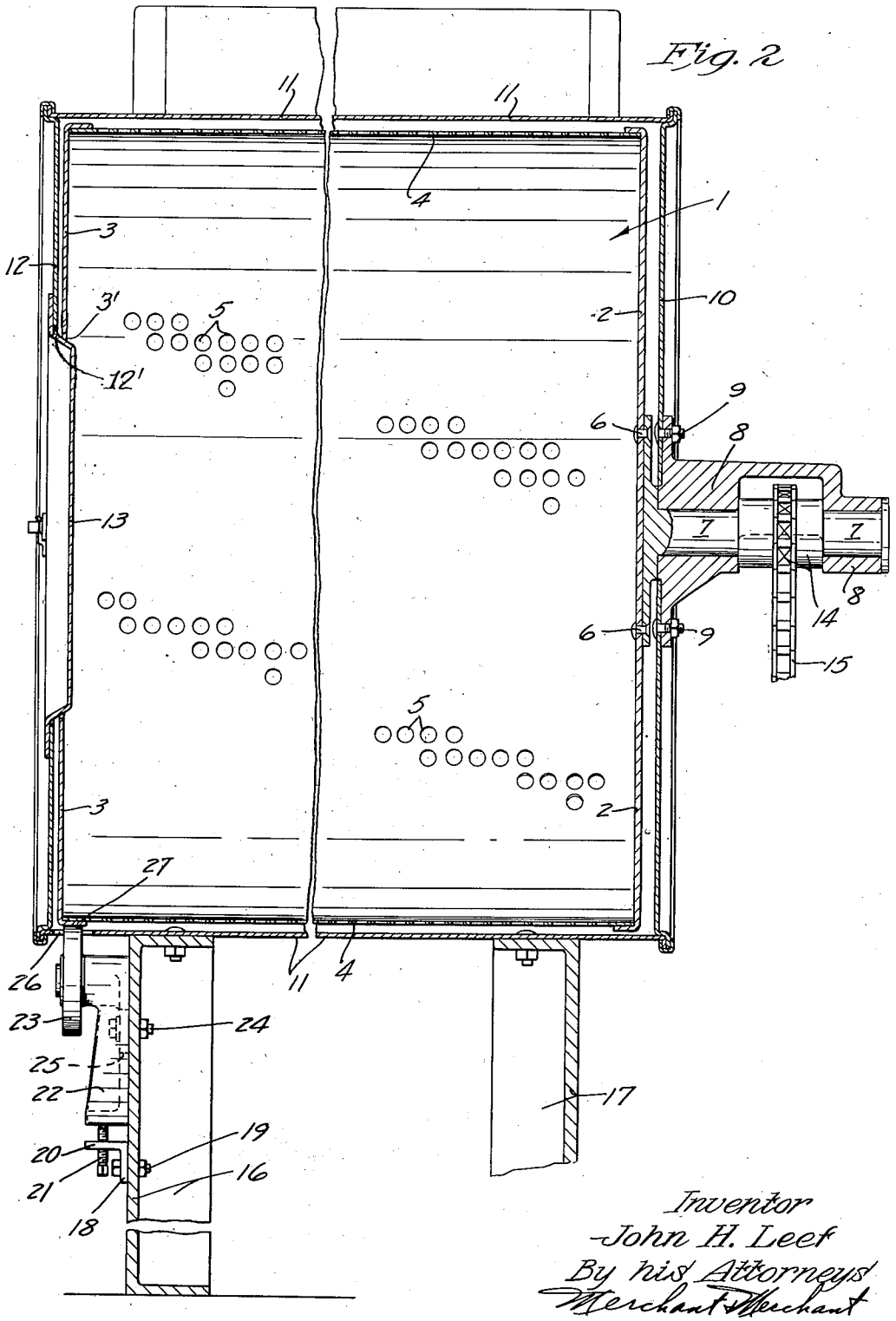
March 18, 1952 J. H. LEEF 2,589,619

ATTACHMENT FOR LAUNDRY MACHINES

Filed April 9, 1949

2 SHEETS--SHEET 2

Fig. 2



Inventor
John H. Leef
By his Attorneys
Merchant & Merchant

Patented Mar. 18, 1952 2,589,619

UNITED STATES PATENT OFFICE

2,589,619

ATTACHMENT FOR LAUNDRY MACHINES

John H. Leef, Minneapolis, Minn.

Application April 9, 1949, Serial No. 86,480

1 Claim. (Cl. 259—3)

1

My invention relates generally to improvements in drum or cylinder-type laundry devices and, more particularly, to improvements therefor.

Still more specifically, my invention relates to horizontally-disposed laundry tumbler cylinders which are normally journalled only at their closed rear ends to a supporting frame for rotation about their own axes.

I have found that with such devices, due to the fact that the drums are rotatively supported only from their rear ends, undue stress is placed upon the bearings. This results in relatively rapid bearing wear, bearing replacement (with the consequent tying up of the machine), and the use of increased amounts of power, required to turn the drum or cylinder because of increased friction.

The primary object of my invention is the provision of an attachment, including a pair of supporting rollers, which may be readily secured to the stationary supporting frame of such a device for rotatively supporting the front end of the drum or cylinder, whereby the objectional features of said machine above-described, are largely eliminated.

A still further object of my invention is the provision of such a device which may be readily secured to a machine of the type in question and which may thereafter be adjusted to compensate for wear, disalignment, and the like.

A still further object of my invention is the provision of such a device, which is inexpensive to produce, simple in construction, and durable in use.

The above and still further objects of my invention will become apparent from the following detailed specification, appended claim, and attached drawings.

Referring to the drawings, wherein like characters indicate like parts throughout the several views:

Fig. 1 is a front elevation of a rotating cylinder laundry machine, showing my novel device secured thereto; and

Fig. 2 is a vertical axial section, taken substantially on the line 2—2 of Fig. 1.

Referring with greater particularity to the drawings, the numeral 1 indicates, in its entirety, a horizontally-disposed cylinder including a rear wall 2, an annular front wall 3 defining a central opening 3', and a circumferentially-extended outer wall 4, shown as having therein a plurality of perforations 5. Projecting axially from rear wall 2, and made fast therewith by means of

2

rivets 6, is a stub shaft 7 which is journalled in an elongated bearing 8. Bearing 8 is secured fast, by means of bolts or the like 9, to the imperforate rear wall 10 of a housing or casing 11 in which the drum 1 is adapted to rotate. Housing 11 has an annular front wall 12 defining a central opening 12' axially aligned with the opening 3'. The openings 3' and 12' are normally closed by a swinging cover plate 13 hinged to the front wall 12 as indicated at 13'. The drum 1 may be rotated by means of a sprocket wheel 14 fast on the shaft 7, by means of a chain 15 connected to a source of power, not shown.

Preferably and as shown, the casing or housing 11 is supported in spaced relation to the ground by means of front and rear legs in the nature of skirts 16 and 17 respectively. My novel attachment for machines of the type above-described, comprises a base member 18, shown as being an elongated angle iron which is adapted to be rigidly secured, by means of bolts or the like 19, to the front leg 16 below and in spaced relation to the under side of housing 11 and cylinder 1. Working upwardly through the forwardly-projecting shelve 20 of the base member 18 are a pair of spaced adjustment screws 21. Adapted to be adjustably secured to the front leg 16 intermediate the base member 18 and the under side of the housing 11 is a yoke 22 having a pair of spaced rollers 23 projecting upwardly therefrom. Headed bolts 24, which work in vertically-extended slots 25 in the yoke 22, permit limited vertical adjustability of the yoke 22 with respect to the base member 18 and the under side of the casing 11 and drum 1. As shown, the casing 11 is cut away, as indicated at 26, to permit rollers 23 to make peripheral supporting engagement with the under side of the casing 1, as indicated at 27.

It should be obvious that, in order to initially obtain the desired height of the rollers 23, both with respect to each other and with respect to the base member 18 and cylinder 1, or to make adjustments thereafter due to wear, it is but necessary to loosen the bolts 24 (whereby to permit relative movement of the yoke 22 with respect to the front leg 16) and adjust the screws 21.

My attachment is shown as being applied to a conventional clothes drying machine of the tumbler type used in commercial laundries. It should be obvious to those skilled in the art that the invention may be utilized to support the front end of imperforate tumbling drums of this general character in washing machines.

While I have described and shown a commercial form of my invention, it should be obvious that the same is capable of modification without departure from the scope and spirit of the invention as defined in the appended claim.

What I claim is:

In a device of the class described, a generally cylindrical housing, a horizontally-disposed cylindrical tumbling drum within said housing, means journalling the rear end of said tumbling drum to said housing, said housing and drum having aligned openings in their forward ends for the insertion of material to the inside of said drum and removal of material therefrom, a supporting leg for said housing, said leg being spaced rearwardly from the forward ends of said housing and tumbling drum, said housing being provided with aperture means intermediate said leg and the front end thereof, means for rotatably supporting the front end of said tumbling drum, said means comprising a base member secured fast to the front supporting leg below the front end of said housing and tumbling drum, a yoke vertically adjustably secured to said leg

intermediate the base member and the under side of said housing, a pair of laterally-spaced rollers journalled on said yoke on axes parallel to the axis of said tumbling drum, said rollers projecting upwardly through said aperture means and making peripheral supporting engagement with the under side of said tumbling drum, and adjusting means between said base member and said yoke for varying the height of said rollers.

JOHN H. LEEF.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
859,412	Schutz	July 9, 1907
2,289,162	Amonsen	July 7, 1942

FOREIGN PATENTS

Number	Country	Date
468,790	France	July 16, 1914