

No. 732,907.

PATENTED JULY 7, 1903.

B. E. STORR.
ROLLER.

APPLICATION FILED JAN. 18, 1903.

NO MODEL.

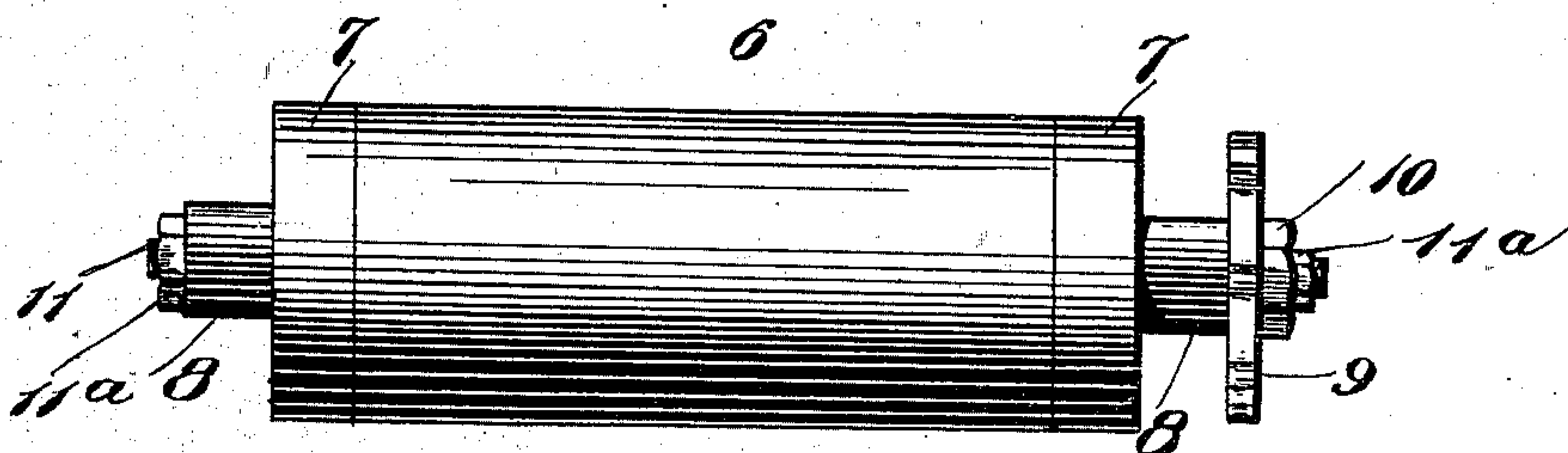


Fig. 1.

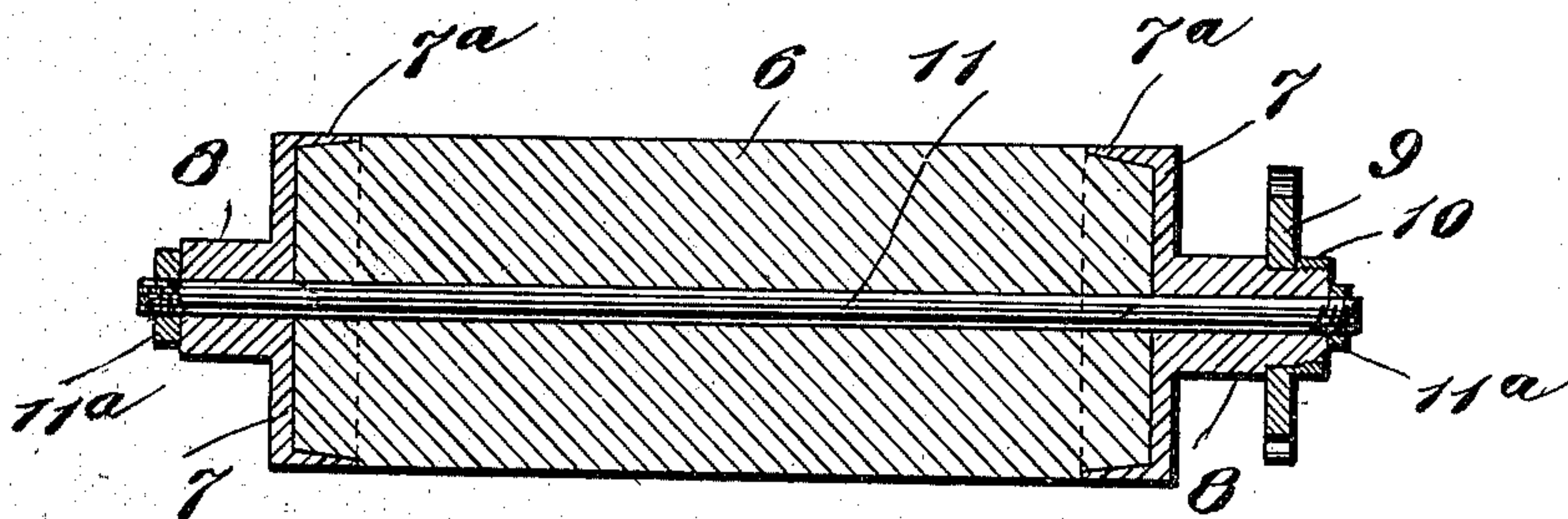


Fig. 2.

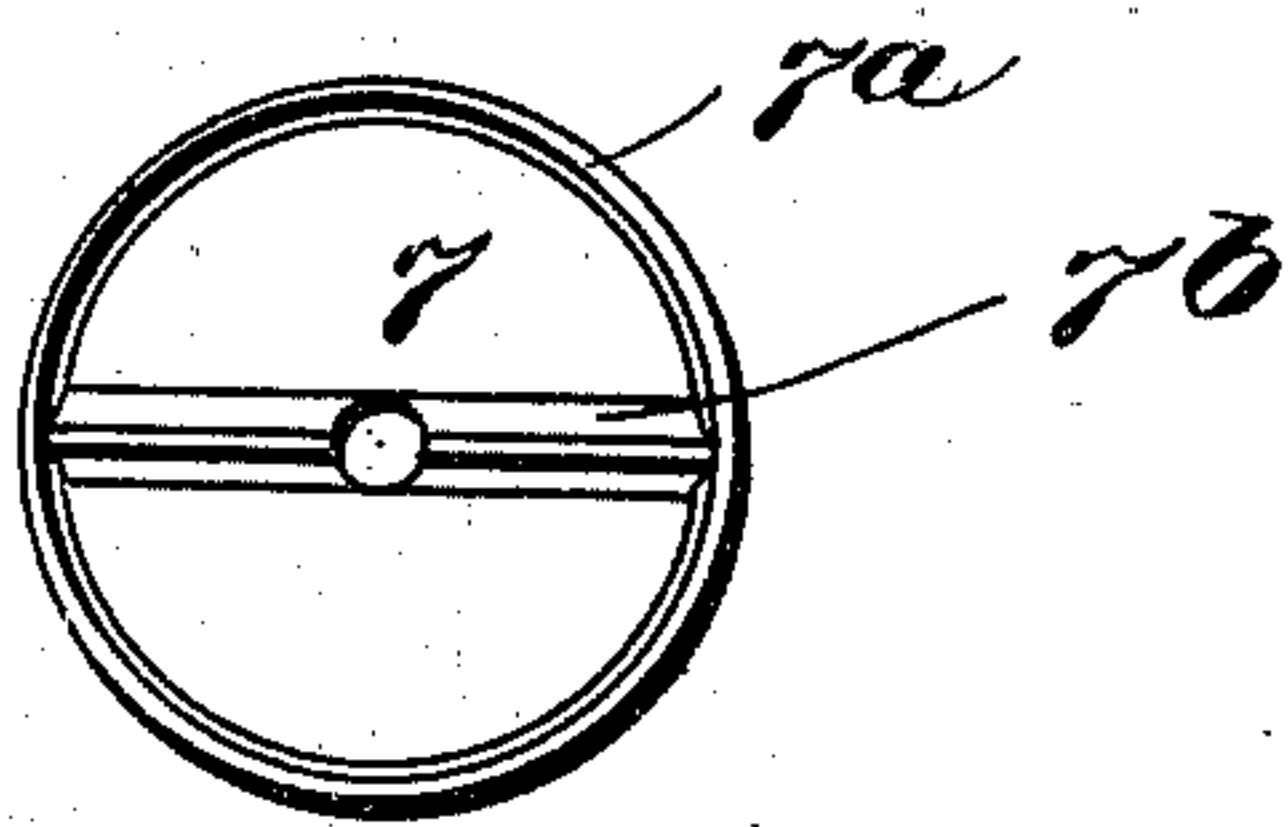


Fig. 3.

Witnesses
M. E. Loder.
Geo. E. Tew.

Inventor
Burt E. Storr
by
Milo B. Stevens & Co.
Attorneys

UNITED STATES PATENT OFFICE.

BURT EDWIN STORR, OF MISSOULA, MONTANA.

ROLLER.

SPECIFICATION forming part of Letters Patent No. 732,907, dated July 7, 1903.

Application filed January 16, 1903. Serial No. 139,325. (No model.)

To all whom it may concern:

Be it known that I, BURT EDWIN STORR, a citizen of the United States, residing at Missoula, in the county of Missoula and State of Montana, have invented certain new and useful Improvements in Rollers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to rollers, and is particularly useful in sawmills and sorting-floors, where lumber is transferred from one place to the other, although it is to be understood that it is not confined to such use.

The object of the invention is to produce a construction permitting the renewal of the wooden body of the rollers, and the invention relates particularly to the metal heads and journals of such rollers and to a rod binding the parts together. The heads herein described are adapted to any length of roller, and when the wood body wears out a new one can be put in between the old heads in short order. The construction will be found very useful in conveyers of all sorts, although, as above stated, it is particularly adapted for handling lumber in sawmills and the like.

In the accompanying drawings, Figure 1 is a plan view of the roller constructed according to my invention. Fig. 2 is a longitudinal section thereof. Fig. 3 is an inside elevation of one of the heads.

Referring particularly to the drawings, 6 indicates the wooden body of the roller. Its ends are rabbeted to receive the annular flanges 7^a of the heads 7. The flanges are beveled to give a wedge bind on the wood and to permit the parts to be tightened up if the wood shrinks. The journals 8 are formed in one piece with the heads, and one of the journals is squared to receive a sprocket-wheel 9, whereby the roller may be driven, if desired. The binding-nut for the sprocket-wheel is indicated at 10, fitting a reduced threaded extension of the journal. A sprocket-wheel may

be provided at both ends of the roller, if desired, in the same manner. The wooden body of the roller, the heads, and the journals are bored axially to receive the binding-rod 11, which is threaded at both ends to receive suitable nuts 11^a, whereby the body and the heads are drawn and clamped together when assembled. One of the heads, preferably the head having the sprocket-wheel, has an inner diametrical rib, (indicated at 7^b.) The end of the body of the roller is grooved to receive this rib, so that when the roller is driven the parts will not turn upon each other.

By the construction shown a roller of great simplicity and strength is formed. The heads are solid, as shown, and the journals being formed integrally therewith and the parts all bound together by the binding-rod 11 a tight and rigid construction is formed. When the body becomes worn out, it is a simple matter to remove the nut on one end of the binding-rod and draw the rod out. The worn body can then be removed and a new one substituted. This saves throwing away the whole roller, because the heads can be used repeatedly.

Instead of the sprocket shown a pulley or other driving device may be applied to the roller. In fact, the construction is adapted to any use where such a roller might be needed, and I do not limit the scope of the invention to the exact construction claimed further than appears from the appended claims.

What I claim as new, and desire to secure by Letters Patent, is—

1. A roller comprising a body, heads fitting the ends thereof and having projecting journals, and a removable tie-rod extending through the body, heads and journals.

2. In a roller, the combination with a body, of removable heads thereon, having integral journals, and flanges projecting over the body, and a removable tie-rod extending between the heads through the body.

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

BURT EDWIN STORR.

Witnesses:

D. F. CURRAN,
O. P. JACKSON.