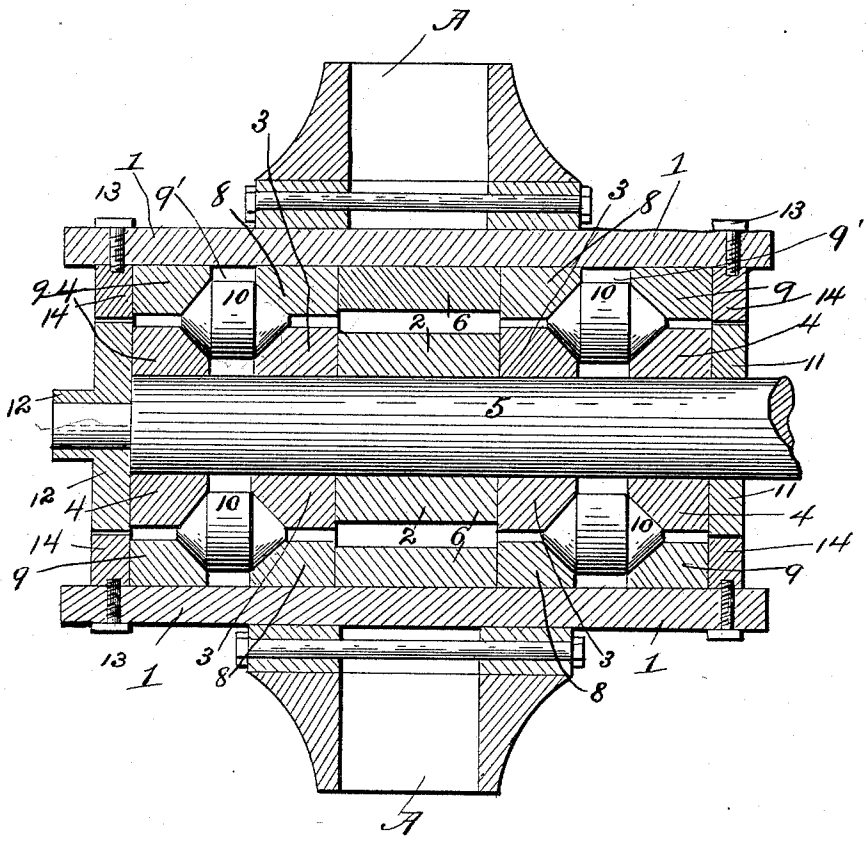
(No Model.)

S. B. BARTLETT.

ROLLER BEARING.

No. 485,083. Patented Oct. 25, 1892.



Witnesses:
Arthur Aughinbaugh
A. E. Glascock.

Inventor:-
Saul. B. Bartlett,
by W. E. Aughinbaugh
Attorney.

UNITED STATES PATENT OFFICE.

SAMUEL B. BARTLETT, OF CAMDEN, NORTH CAROLINA.

ROLLER-BEARING.

SPECIFICATION forming part of Letters Patent No. 485,083, dated October 25, 1892.

Application filed April 6, 1892. Serial No. 427,991. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL B. BARTLETT, a citizen of the United States, and a resident of Camden, in the county of Camden and State of North Carolina, have invented a certain new and useful Improvement in Roller-Bearings, of which the following is a specification, reference being had to the accompanying drawing, which is a central sectional elevation of my device.

In the drawing, A indicates the hub of a wheel, and 1 indicates an axle box or casing. Within said axle box or casing is centrally placed a collar 6, having at each end thereof a beveled ring 8 8, contacting loosely therewith. A short distance from the rings 8 8, before alluded to, and at each end of the box 1 are other rings 9 9, with their beveled portions facing the bevels of the rings 8 8. Upon the shaft or axle 5 is mounted a collar 2 in a position corresponding with the collar 6, above referred to, and at each end thereof is a ring 3 3, whose outer faces are beveled. Near the last-named rings are also placed upon the shaft or axle other rings 4 4, whose inner faces are beveled to correspond with the bevel in rings 3 3. By locating the beveled rings as already mentioned a space 9′ 9′ is left at each end of the box between the beveled faces of the rings before referred to. In said spaces are placed a series of balls of friction-rollers 10 10, corresponding in shape to the configuration of the spaces 9′ 9′.

In order to secure the parts hereinbefore mentioned in position, an enlargement or collar 11 is secured on the axle or shaft 5, and the outer end of said shaft or axle has removably secured on it a corresponding collar 12. End rings 14 14 are detachably fastened to the box or axle-casing by screws 13 13. By means of the rings 14 14 and collars 11 12 it is evident that the parts may be securely held in position, and the box or its contents may also be readily removed for repairs.

Attention is directed to the fact that all of the collars and rings in the interior of the box or casing and on the axle or shaft, except the collars 11, 12, and 14, are loose thereon, thus greatly simplifying the assembling of the parts and also their removal. Another advantage gained by this construction is that when one ring or collar becomes worn or broken a new one may readily be inserted by an unskilled person.

While I have shown my device applied to a vehicle-hub, it is obvious that it may be used on shafting or in other suitable places.

What I claim is—

1. In a roller-bearing, a box provided with a central collar, an axle with a corresponding collar, and two series of beveled rings provided with spaces between each series, and a series of loose rollers in each of said spaces.

2. In a roller-bearing, a box provided with a central collar, an axle with a corresponding collar, and two series of beveled rings provided with oblong spaces between them, and a series of oblong rollers, and means at the end of the box for holding the parts in position.

3. In a roller-bearing, a box provided with a central collar, an axle with a corresponding collar, and two series of beveled rings provided with spaces between each series, and a series of loose rollers in each of said spaces, all of said collars and rollers being loosely mounted in the box or casing, and means secured to the ends of the casing and to the axle or shaft for holding said parts in position.

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

SAMUEL B. BARTLETT.

Witnesses:
G. G. LUKE,
C. M. FEREBEE.