

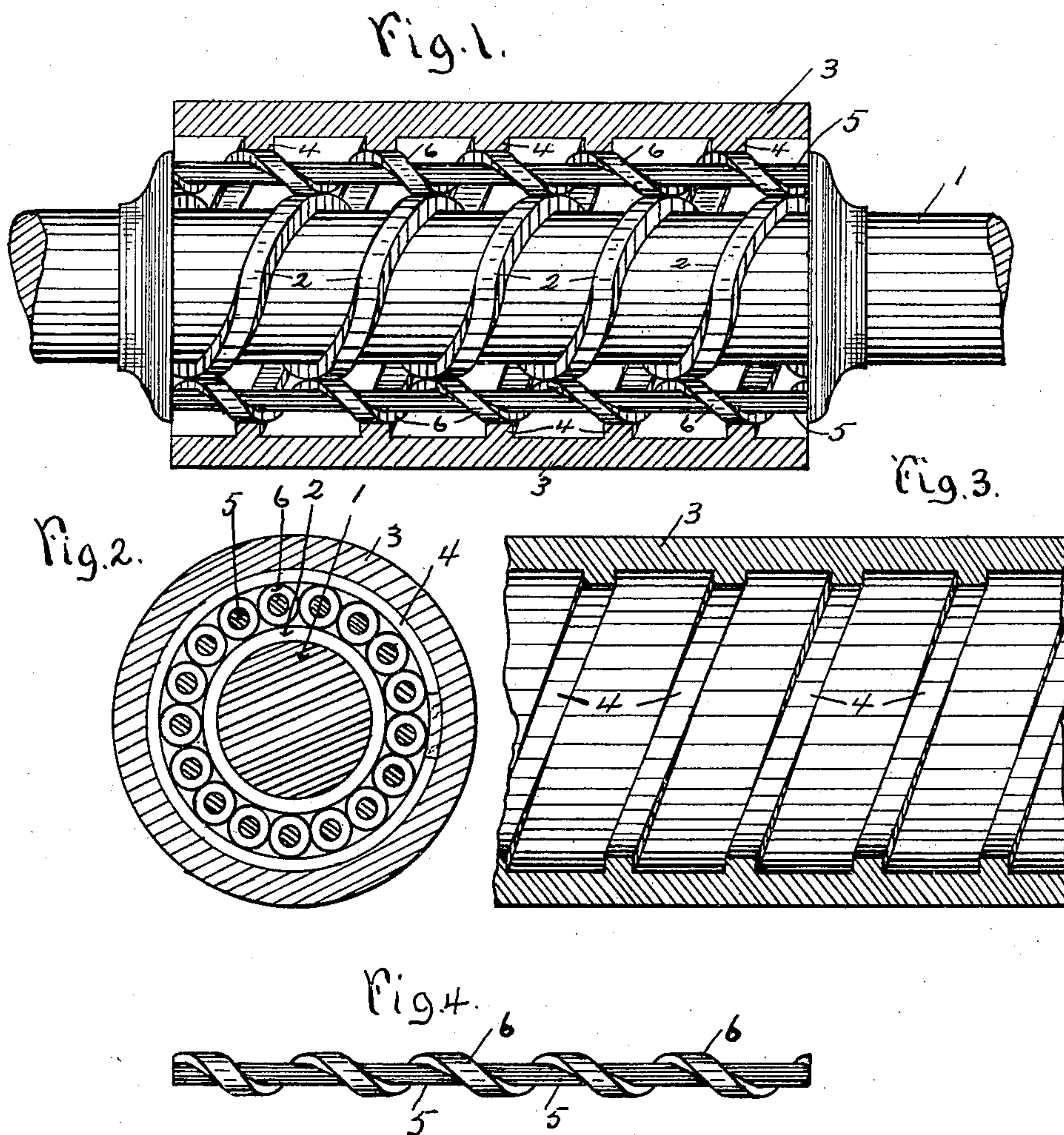
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Patented Jan. 31, 1899.

C. A. LATHAM.
ANTIFRICTION BEARING.

(Application filed Oct. 5, 1897.)

(No Model.)



Witnesses
Halter Hergues
Jacob M. Babington

Inventor
Chestnut Latham.
By H. B. Hagin
att'y

UNITED STATES PATENT OFFICE.

CHESTER A. LATHAM, OF WICHITA, KANSAS.

ANTIFRICTION-BEARING.

SPECIFICATION forming part of Letters Patent No. 618,543, dated January 31, 1899.

Application filed October 5, 1897. Serial No. 654,144. (No model.)

To all whom it may concern:

Be it known that I, CHESTER A. LATHAM, a citizen of the United States of America, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Antifriction-Bearings, of which the following is a specification, reference being had therein to the accompanying drawings, and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is a side view of the journal and ridged roller and a sectional view of the boxing of my improved antifriction-bearing. Fig. 2 is a cross-section of the same. Fig. 3 is a longitudinal section of said ridged boxing. Fig. 4 is a side view of said ridged roller.

This invention relates to certain improvements in antifriction-bearings; and it consists of a roller placed between a journal and the boxing, said rollers, journal, and boxing having one or more spiral ridges surrounding them from end to end; and the object of my invention is to provide an antifriction-bearing.

Referring to the drawings, 1 represents a journal, and 2 represents spiral ribs or ridges surrounding said journal.

3 represents a journal-boxing having the spiral ribs 4.

5 represents rollers which are provided with one or more spiral ribs or ridges 6. Said ridges wind around said rollers in the opposite direction from the ribs of the journal and boxing and are placed between said journal and boxing, as shown in Figs. 1 and 2, said

rollers being adapted to roll freely between said journal and boxing, with the ribs 2, 4, and 6 touching at one point at each time they surround their respective journal, boxing, and rollers. Said ribs may be provided with a flat surface, as shown, or they may be made with a rounding or oval surface. Said ridged rollers may be used with ordinary journal and boxing, or ridged journal and boxing may be used with smooth rollers. Said rollers may be made with the spiral ribs surrounding said rollers in the same direction as the ribs of the journal and boxing.

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

1. The herein-described bearing consisting of a journal having spiral ridges surrounding the same from end to end, a boxing having a like series of ridges from end to end, and a series of rollers with spiral ridges surrounding said rollers from end to end, the ridges of said rollers engaging the ridges on the journal and boxing, and said rollers adapted to rotate freely.

2. An antifriction-bearing consisting of a journal and boxing, each provided with spiral ridges surrounding them in the same direction from end to end, and a series of rollers adapted to rotate between said journal and boxing.

CHESTER A. LATHAM.

Witnesses:

E. V. JOHNSTON,
M. S. HINMAN.