No. 714,114. Patented Nov. 18, 1902.

G. N. SCEETS.

JOURNAL BEARING.

(Application filed Mar. 24, 1902.)

(No Model.)

Fig. 1.

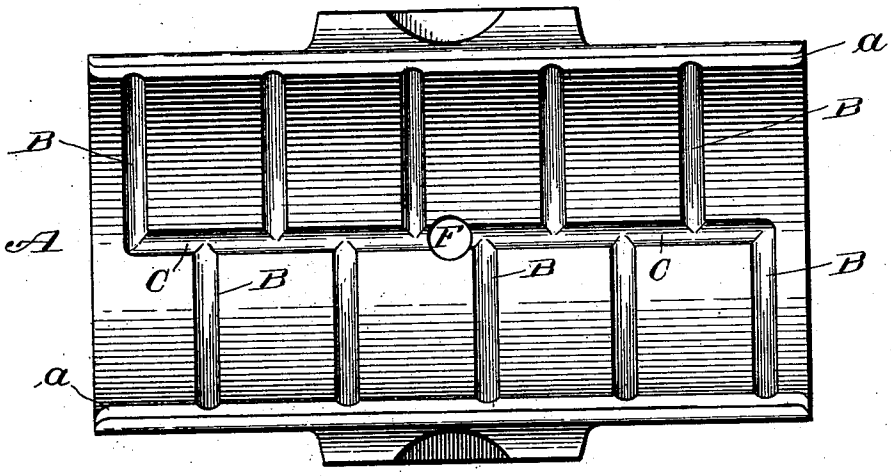
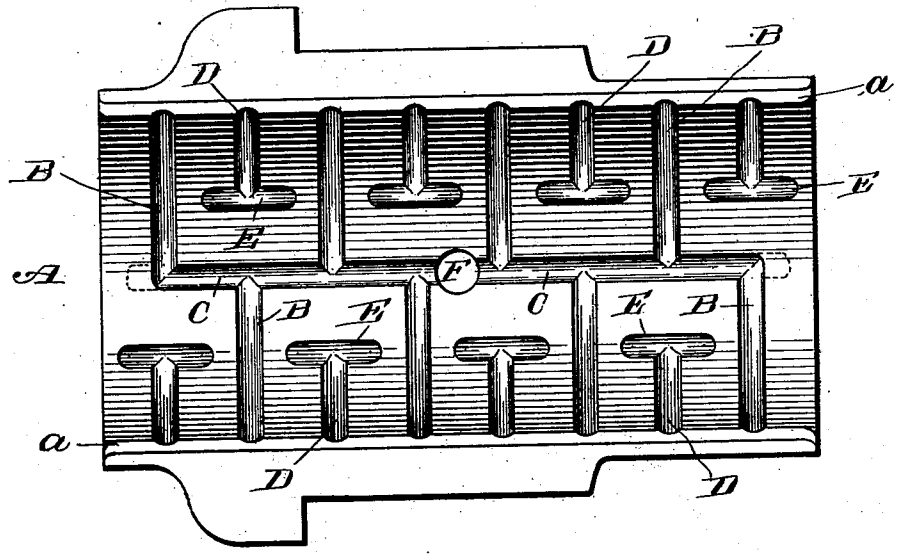


Fig. 2.



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JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 714,114, dated November 18, 1902.

Application filed March 24, 1902. Serial No. 99,767. (No model.)

To all whom it may concern:

Be it known that I, GEORGE N. SCEETS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Journal-Bearings, of which the following is a specification.

My present invention relates to improvements in journal-bearings of the character illustrated in my application, Serial No. 60,268, filed May 15, 1901, and also has for its object to provide an effective distribution of the oil to the bearing-surfaces in order to thoroughly lubricate the bearing and prevent heating.

The invention disclosed in my former application consists in providing a bearing with circumferential oil-feeding channels and blind oil-distributing channels extending lengthwise of the bearing and intersecting the feeding-channels.

My present invention consists in providing a continuous oil-distributing channel for intersecting all of the main feeding-channels, and in addition thereto auxiliary feeding-channels may be employed with blind intersecting channels.

For convenience I have shown in the accompanying drawings and will describe my invention as embodied in a car journal-bearing; but it will be understood that I do not restrict myself to this particular embodiment, but may employ the invention wherever it will be useful and in car journal and other bearings of any kind.

In the drawings, Figure 1 is a plan or face view of the bearing, showing main oil-feeding channels intersected by a single oil-distributing channel; and Fig. 2 is a similar view also showing auxiliary feeding-channels intersected by blind independent oil-distributing channels.

Like letters of reference indicate similar parts in both figures of the drawings, and referring thereto A designates any ordinary car journal-bearing provided with a composition lining *a;* but the bearing may be made of any suitable metal without such lining, if desired. The working face of the bearing is provided with circumferential oil-feeding channels B, which are shown in the drawings as extending from the side edges of the bearing to the oil-distributing channel C, which is located, preferably, at or about midway between the side edges of the bearing and extends nearly to the ends thereof. The feeding-channels on one side of the distributing-channel are arranged in staggered relation to those on the other side, so as not to form a continuous circumferential feeding-channel extending from edge to edge of the bearing, and each end of the distributing-channel preferably terminates at its juncture with a feeding-channel, but may be extended, as shown in broken lines in Fig. 2, if desired.

I may also employ short auxiliary oil-feeding channels D alternating with the main oil-feeding channels B and intersected by the blind oil-distributing channels E, as shown in Fig. 2, if desired; but these blind oil-distributing channels may be of L form extending on one side only from the intersecting feeding-channel instead of T form, as shown. An oil-feeding opening F may be provided in the bearing, if desired. I do not limit myself in any way to the number or arrangement of the feeding-channels nor to the particular location of the distributing-channels, as it is apparent that changes and modifications may be made in the embodiment of the invention to adapt it to different conditions without departing from the spirit or scope of the invention.

In practice the oil is carried up on the journal through the feeding-channels B and distributed in the channel C lengthwise of the journal, particularly to that part thereof which is in constant contact with the bearing, whereby a most effective lubrication is always maintained and friction between the parts is reduced to a minimum.

The oil-channels may be formed in any way in the body of the bearing or of its lining, and if the bearing is provided with a lining they may be made of sufficient depth to extend completely through it into the body.

In the drawings I have shown the invention embodied in car journal-bearings of two different types; but it is apparent that the invention is not limited in any way to use

with the particular kind of bearing shown and may be employed in every connection where it will be useful.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A journal-bearing having in its working face a longitudinal oil-distributing channel and circumferential oil-feeding channels intersecting the distributing-channel and arranged in staggered relation to each other on opposite sides of the distributing-channel.

2. A journal-bearing having in its working face a longitudinal oil-distributing channel, and parallel circumferential oil-feeding channels intersecting the distributing-channel and arranged in staggered relation with each other on opposite sides of the distributing-channel.

3. A journal-bearing having in its working face circumferential oil-feeding channels and a longitudinal oil-distributing channel intersecting the feeding-channels, and auxiliary feeding-channels provided with blind distributing-channels.

4. A journal-bearing having in its working face a longitudinal oil-distributing channel and parallel circumferential oil-feeding channels arranged in staggered relation with each other on opposite sides of the distributing-channel, and short auxiliary feeding-channels provided with blind distributing-channels at their inner ends.

5. A journal-bearing having in its working face main circumferential oil-feeding channels and a main longitudinal oil-distributing channel intersecting said main feeding-channels, and short auxiliary feeding-channels alternating with the main feeding-channels and provided with blind distributing-channels.

6. A journal-bearing having in its working face a main longitudinal oil-distributing channel and main circumferential oil-feeding channels arranged in staggered relation with each other on opposite sides of said main distributing-channel, short auxiliary feeding-channels on each side of the main distributing-channel and alternating with the main feeding-channels, and an independent blind distributing-channel at the inner end of each auxiliary feeding-channel.

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