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(54)	PROTECTING DEVICE FOR BALL-BEARINGS			(57)	Abstract:		
(54)	DISPOSITIF PROTECTEUR DE ROULEMENT A BILLES						

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THIS IS THE EXHIBIT MARKED
 PREPARED TO IN THE AFFIDAVIT OF

Edouard Hefner
 WORN BEFORE ME THIS 30th DAY OF
 October 1938

H. A. Dough

British Pro-Consul
 British Consulate General
 PARIS.



It is well known that an efficacious protection of ball bearings against introduction therein of outer dust is very difficult to realize, and especially so when these ball bearings are bound to work quite near the ground, among marshes, etc..

The object of the present invention is to provide a ball bearing protecting device.

Figure 1 represents a view showing the embodiment of such a device.

Figure 2 is a section along the line A-B in figure 1.

The ball bearing is fitted as usual. Its outer casing 1 (figure 1) is mounted on the hub 2, supposed to be rotating; the inner ring 3 is secured on a socket 4 (figures 1 and 2) by means of axis 5, cross piece 6 and abutment 7.

This abutment carries a collar provided with circular and parallel striations on which is mounted a felt crown 8 or a crown made of some other material.

On this crown 8 is adjusted an embossed piece of leather 9 (figures 1 and 2), which is otherwise fixed on the hub 2 by means of the screws 10. One or more spiral springs 11 force the embossed portion of the leather 9 to guarantee a perfect tightness of the leather piece 9 and crown 8, and ensures the driving of the latter by the first.

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When the device is to be protected against hard objects from outside, an embossed piece of plate is used (12) which serves at the same time as a bearing washer for securing the piece of leather 9; and, on the other hand, a cupel-like plate piece 13, fixed on the fast axis of the arrangement. A slight play is provided between these two pieces.

It is seen that the tightness of the device is secured on one side by the crown 8 which, owing to its flexibility, applies firmly on the parallel circular striations of abutment 7 and on the other by the leather piece 9, as the two pieces 12 and 13 only ensure a rough protection against outer objects.

Besides its tightness, the arrangement, owing to the flexibility of the leather-piece 9, has the great advantage to afford a slight axial displacement of the axis in respect to the hub, without causing the internal oil to be drawn by capillarity, nor the external objects, as happens with the ordinary smooth friction protecting devices.

Having thus described my invention, I claim:-

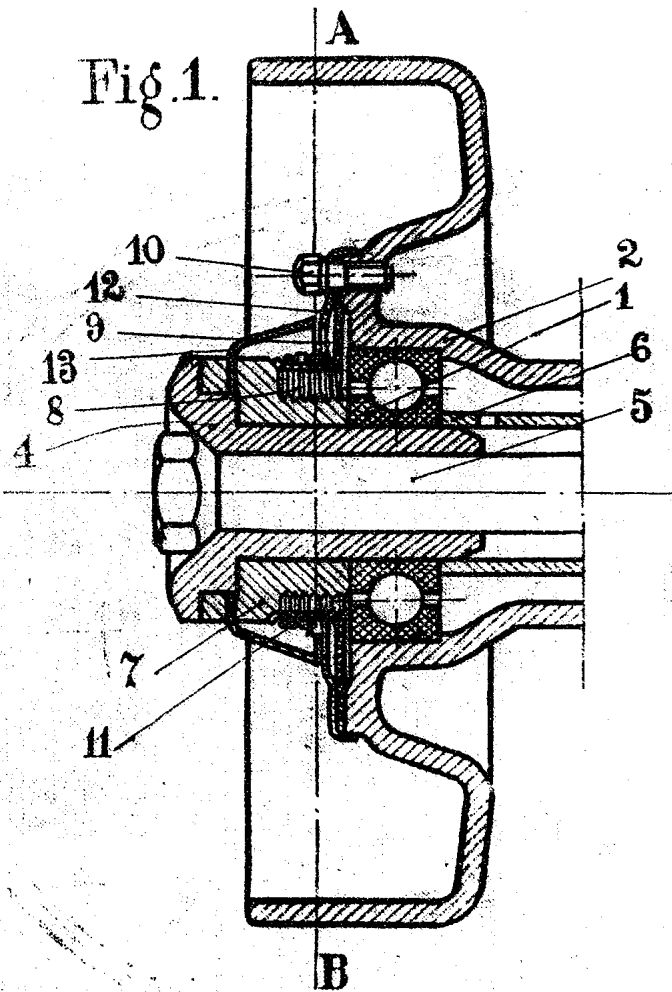
1. A protecting device for ball-bearings having a fixed axle and rotating portion, comprising a member secured to the axle and having a plurality of circular parallel grooves, a crown lodged in said grooves, and a stamped shield covering said crown and secured to the rotating portion of the ball-bearing.

2. In a protecting device as claimed in claim 1, a plurality of spiral springs between the crown and shield, whereby a tight joint is had between the two and said shield drives the crown.

3. In a ball-bearing protecting device as claimed in claim 1, an exterior cover secured to the axle and overlapping the joint between crown and shield, whereby to protect said joint against damage and entrance of foreign matter.

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Fig. 1.



INVENTOR:

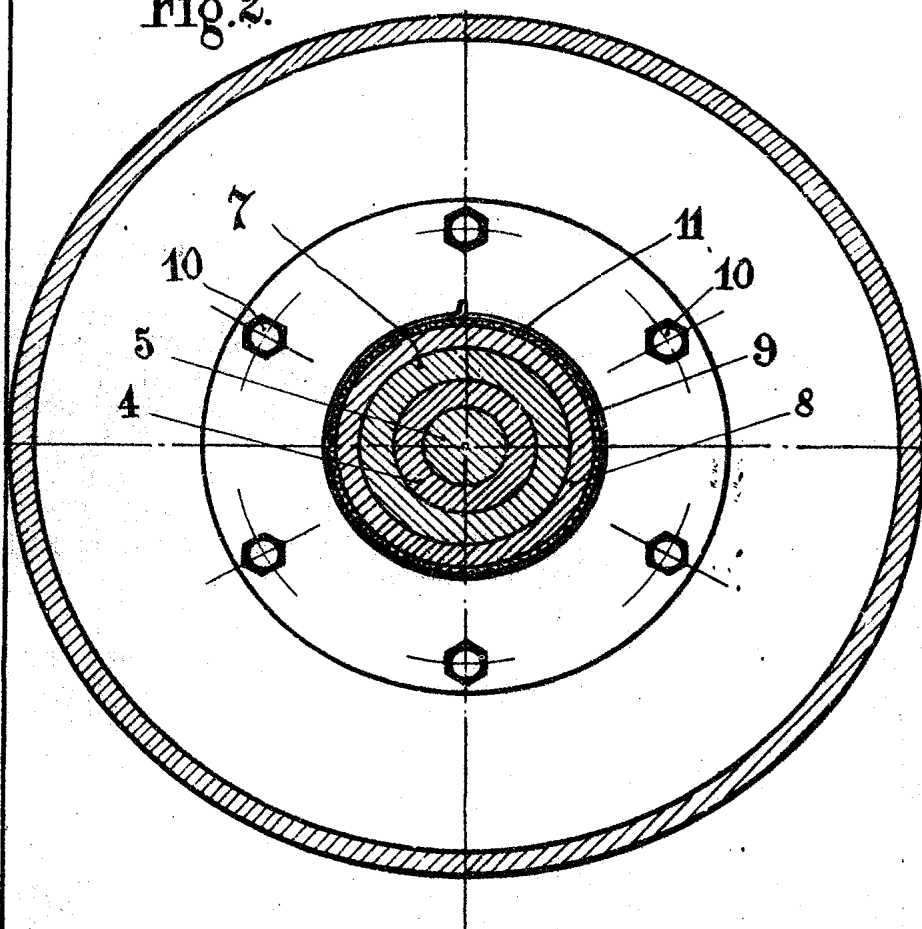
Certified to be the drawings referred to ADOLPHE KEGRESSE
in the specification hereunto annexed.-
MONTREAL, November 11th, 1930.

BY

Maxion & Maxion

Attorneys.

Fig. 2.



INVENTOR:

Certified to be the drawings referred to in ADOLPHE KEGRESSE.
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