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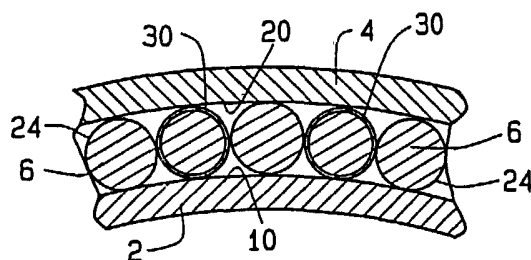
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(54) Title: FULL COMPLEMENT ANTIFRICTION BEARING



(57) Abstract: A full complement antifriction bearing (A) includes a steel inner race (2), a steel outer race (4), and rolling elements (6) organized in a circular row between the races without a cage or retainer for separating the rolling elements. While the absence of a cage or retainers enable the bearing (A) to have the maximum number of rolling elements (6) and thus transfer greater loads, adjacent rolling elements (6) contact each other. Each rolling element (6) or every other rolling element (6) is covered with a tribological coating (30) that retards adhesive wear and reduces friction.



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# INTERNATIONAL SEARCH REPORT

International Application No <b>PCT/US 03/09845</b>
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**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 F16C33/36**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
**EPO-Internal, PAJ**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 4 293 171 A (KAKUMOTO KEN-ICHI ET AL) 6 October 1981 (1981-10-06) column 1, line 62 -column 5, line 23; figures 1-4 ---	1-5, 7-9, 20
X	US 6 318 898 B1 (WARD ROBERT E ET AL) 20 November 2001 (2001-11-20)  column 3, line 14 -column 6, line 32; figures 1-4 ---	1, 2, 4, 5, 7, 12, 13, 20
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Further documents are listed in the continuation of box C.       Patent family members are listed in annex.

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*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
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Date of the actual completion of the international search  <b>26 September 2003</b>	Date of mailing of the international search report  <b>06/10/2003</b>
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  <b>De Jongh, C</b>
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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