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(71) Applicant: **GGB, INC.** [US/US]; 700 Mid Atlantic Parkway, Thorofare, New Jersey 08086 (US).

(72) Inventor: **KIM, Michael**; 14 Ridgemont Drive, Marlton, New Jersey 08053 (US).

(74) Agent: **BRAIRTON, Scott A.** et al.; Perkins Coie LLP, P.O. Box 1247, Seattle, Washington 98111-1247 (US).

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(54) Title: SOLID LUBRICANT COMPOSITIONS AND BEARINGS INCORPORATING THE SAME

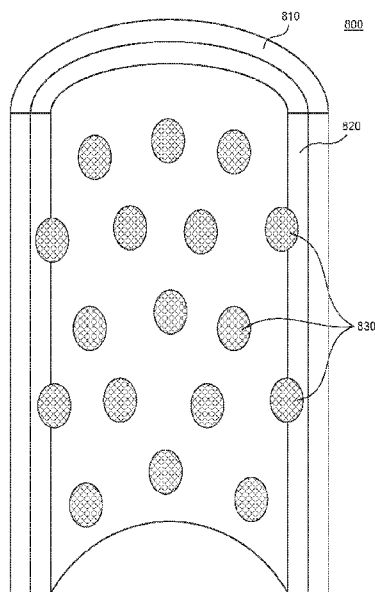


FIG. 8

(57) Abstract: A solid lubricant composition comprising a wax carrier and agglomerates of PTFE micropowder dispersed throughout the wax carrier is disclosed. In some embodiments, the solid lubricant composition is applied to an interior surface of a cylindrical plain bearing. In other embodiments, a polymer sliding layer having a plurality of indentations formed therein is applied to the interior surface of a metal shell, and the solid lubricant composition described herein is disposed in the indentations, to thereby form a cylindrical plain bearing having a sliding layer of both the polymer material and the solid lubricant composition.



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A. CLASSIFICATION OF SUBJECT MATTER**C10M 101/02(2006.01)i, C10M 107/38(2006.01)i, C10N 40/02(2006.01)n**

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)

C10M 101/02; B32B 5/16; C08K 5/101; C09D 5/00; C10M 111/04; C10M 125/22; C10M 163/00; E04H 9/02; C10M 107/38; C10N 40/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: solid lubricant, paraffin wax, polyethylene wax, PTFE powder, bearing

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2016-0145886 A1 (OILES CORPORATION) 26 May 2016 See paragraphs [0014], [0064], [0075], [0077], [0088]; and claims 1, 8, 9, 14.	1-15
Y		16-20
Y	US 2017-0081522 A1 (FEDERAL-MOGUL WIESBADEN GMBH) 23 March 2017 See paragraphs [0021]-[0022]; and figure 2.	16-20
A	US 6106936 A (ADAM, ACHIM) 22 August 2000 See columns 2-3; and claims 1, 12, 14.	1-20
A	US 2015-0133350 A1 (OILES CORPORATION) 14 May 2015 See claims 1-32.	1-20
A	US 6852677 B2 (KURZ, KLAUS et al.) 08 February 2005 See claims 1-15.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"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

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International Application Division

Korean Intellectual Property Office

189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

KWON, YONGKYONG

Telephone No. +82-42-481-3371



INTERNATIONAL SEARCH REPORT

Information on patent family members

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