

Title (en)  
SLIDING MEMBER AND METHOD FOR MANUFACTURING SAME

Title (de)  
GLEITELEMENT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
ÉLÉMENT COULISSANT ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 3712234 A4 20210127 (EN)**

Application  
**EP 18878631 A 20180821**

Priority  
• JP 2017218843 A 20171114  
• JP 2018080500 A 20180419  
• JP 2018030740 W 20180821

Abstract (en)  
[origin: EP3712234A1] A sliding member in which a sliding layer is capable of exhibiting excellent sliding characteristics in terms of seizure resistance, wear resistance and heat resistance. A method for manufacturing the sliding member of the present invention is a method for manufacturing a sliding member to manufacture a sliding member sliding with a mating material. The manufacturing method includes a crosslinking step of irradiating particulate ultra high molecular weight polyethylene with radiation rays in a sealed state, and crosslinking the ultra high molecular weight polyethylene, a composition preparing step of preparing a composition for a sliding layer containing a solid lubricant and a binder resin, and a sliding layer forming step of forming a sliding layer sliding with the mating material by providing the composition for a sliding layer on a base material, and obtaining the sliding member. The solid lubricant includes the ultra high molecular weight polyethylene crosslinked in the crosslinking step.

IPC 8 full level  
**C10M 169/04** (2006.01); **C10N 10/12** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 20/06** (2006.01); **C10N 30/06** (2006.01); **C10N 40/02** (2006.01); **C10N 50/00** (2006.01); **C10N 50/02** (2006.01); **C10N 70/00** (2006.01)

CPC (source: EP KR US)  
**C10M 103/02** (2013.01 - KR); **C10M 103/06** (2013.01 - KR); **C10M 107/04** (2013.01 - KR US); **C10M 125/02** (2013.01 - US); **C10M 125/22** (2013.01 - US); **C10M 149/18** (2013.01 - KR US); **C10M 169/041** (2013.01 - EP); **C10M 177/00** (2013.01 - KR US); **C10M 2201/041** (2013.01 - EP); **C10M 2201/066** (2013.01 - EP); **C10M 2205/022** (2013.01 - EP); **C10M 2211/06** (2013.01 - EP); **C10M 2213/062** (2013.01 - EP); **C10M 2217/0443** (2013.01 - EP); **C10N 2010/10** (2013.01 - US); **C10N 2020/011** (2020.05 - EP); **C10N 2020/04** (2013.01 - EP); **C10N 2020/06** (2013.01 - EP); **C10N 2030/06** (2013.01 - EP KR); **C10N 2050/025** (2020.05 - EP); **C10N 2050/08** (2013.01 - US); **C10N 2050/14** (2020.05 - EP KR); **C10N 2070/00** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0389642 A1 19901003 - DAINIPPON PRINTING CO LTD [JP]  
• See references of WO 2019097791A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3712234 A1 20200923**; **EP 3712234 A4 20210127**; **EP 3712234 B1 20221005**; BR 112020009350 A2 20201027; JP 2019089994 A 20190613; JP 7010127 B2 20220304; US 2021317379 A1 20211014

DOCDB simple family (application)  
**EP 18878631 A 20180821**; BR 112020009350 A 20180821; JP 2018080500 A 20180419; US 201816763383 A 20180821