

Title (en)
TRIBOLOGICAL SYSTEM WITH REDUCED COUNTER BODY WEAR

Title (de)
TRIBOLOGISCHES SYSTEM MIT REDUZIERTEM GEGENKÖRPERVERSCHLEISS

Title (fr)
SYSTÈME TRIBOLOGIQUE AVEC USURE RÉDUITE DE CORPS ANTAGONISTE

Publication
EP 3129519 A1 20170215 (DE)

Application
EP 15716018 A 20150409

Priority

- US 201461977188 P 20140409
- EP 2015057684 W 20150409

Abstract (en)
[origin: WO2015155275A1] The invention relates to a tribological system with a substantially improved tribological behavior, said system at least partly covering a body with a first contact surface by means of a first coating and a counter body with a second contact surface by means of a second coating and comprising lubricant as an intermediate agent. The invention is characterized in that the first and the second coating each has a layer as the outermost layer. The composition of the outermost layer of the first coating and the composition of the outermost layer of the second coating are selected such that • both outermost layers lubricate steel surfaces upon being exposed to steel so as to make tribological contact, and • both outermost layers are materially related layers such that the element composition of the first outermost layer and the element composition of the second outermost layer match by at least 60 at.%.

IPC 8 full level
C23C 14/06 (2006.01); **C23C 14/32** (2006.01); **C23C 28/04** (2006.01)

CPC (source: CN EP KR US)
C23C 14/0641 (2013.01 - CN EP KR US); **C23C 14/325** (2013.01 - CN EP KR US); **C23C 16/34** (2013.01 - US); **C23C 16/50** (2013.01 - US); **C23C 28/042** (2013.01 - CN EP KR US); **C23C 28/044** (2013.01 - CN EP KR US)

Citation (search report)
See references of WO 2015155275A1

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)
WO 2015155275 A1 20151015; CN 106460158 A 20170222; EP 3129519 A1 20170215; JP 2017514017 A 20170601; KR 20160145084 A 20161219; US 2017211174 A1 20170727

DOCDB simple family (application)
EP 2015057684 W 20150409; CN 201580031204 A 20150409; EP 15716018 A 20150409; JP 2016561666 A 20150409; KR 20167031267 A 20150409; US 201515302564 A 20150409