

Title (en)

OIL LIFE DETECTION DEVICE AND OIL LIFE DETECTION METHOD

Title (de)

ÖLLEBENSDAUERERFASSUNGSVORRICHTUNG UND ÖLLEBENSDAUERERFASSUNGSVERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉTECTION DE DURÉE DE VIE D'HUILE

Publication

EP 3312397 A4 20180704 (EN)

Application

EP 16827413 A 20160705

Priority

- JP 2015142830 A 20150717
- JP 2016003203 W 20160705

Abstract (en)

[origin: EP3312397A1] Provided is oil remaining life detection device (1) that detects a remaining life of engine oil in vehicle (2), including: vehicle information acquisition part (21) that acquires, from vehicle (2), information relating to a travel distance of vehicle (2) and information relating to an driving state of an engine of vehicle (2) at every vehicle information acquisition period set in advance; engine state determination part (22) that determines the driving state of the engine during an engine state determination period set in advance, based on the information relating to the driving state of the engine; travel distance correction part (23) that corrects the travel distance of vehicle (2) during the engine state determination period according to the driving state of the engine to calculate a corrected driving distance; and oil remaining life calculation part (24) that subtracts the corrected driving distance from a residual remaining distance, which indicates the remaining life of engine oil, to calculate a new residual remaining distance. With this constitution, oil remaining life detection device (1) in the present disclosure is effective in detecting a remaining life of engine oil of a vehicle with greater accuracy.

IPC 8 full level

F01M 11/10 (2006.01)

CPC (source: EP)

F01M 11/10 (2013.01); **F01M 2011/142** (2013.01); **F01M 2011/1426** (2013.01); **F01M 2011/1433** (2013.01); **F01M 2011/1473** (2013.01); **F01M 2011/1486** (2013.01)

Citation (search report)

- [X] US 6266587 B1 20010724 - GUERTLER THOMAS [DE], et al
- [X] US 4845623 A 19890704 - KORB JEAN-PIERRE [FR]
- [X] US 4742476 A 19880503 - SCHWARTZ ELLEN S [US], et al
- [A] EP 1728983 A1 20061206 - FIAT RICERCHÉ [IT]
- [A] US 5530647 A 19960625 - SEM THOMAS R [US], et al
- See references of WO 2017013845A1

Cited by

CN111997709A

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 3312397 A1 20180425; **EP 3312397 A4 20180704**; JP 6503562 B2 20190424; JP WO2017013845 A1 20180426; WO 2017013845 A1 20170126

DOCDB simple family (application)

EP 16827413 A 20160705; JP 2016003203 W 20160705; JP 2017529440 A 20160705