

Title (en)

FLEET LEVEL PROGNOSTICS FOR IMPROVED MAINTENANCE OF VEHICLES

Title (de)

PROGNOSTIK AUF FLOTTENEbene FÜR VERBESSERTE WARTUNG VON FAHRZEUGEN

Title (fr)

PRONOSTICS DE NIVEAU DE FLOTTE POUR L'ENTRETIEN AMÉLIORÉ DE VÉHICULES

Publication

EP 4189505 A1 20230607 (EN)

Application

EP 21755103 A 20210618

Priority

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- US 2021038036 W 20210618

Abstract (en)

[origin: WO2022026079A1] A ground-based computing system receives data of performance parameters for like components disposed on like aircraft, and determines corresponding levels of degradation and rates of change of degradation for the respective like components. A fleet-level of degradation for groups of like components is generated based on analysis of the combined degradations of the like components in the respective group. At least one of a remaining useful lifetime (RUL) and a state-of-health (SOH) for each of the respective like components is determined based on a comparison of the levels of degradation for each of the like components and the fleet-level of degradation of the group of like components. A predicted time for maintenance for each like component is determined based on the corresponding at least one of the RUL and SOH of the like component, thereby enabling cost effective maintenance determinations for components based on a fleet- level information.

IPC 8 full level

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