Title (en)

METHOD AND DEVICE FOR DETERMINING THE REMAINING SERVICEABLE LIFE OF A PRODUCT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG DER VERBLEIBENDEN BETRIEBSDAUER EINES PRODUKTES

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER LA DUREE DE VIE RESIDUELLE D'UN PRODUIT

Publication

EP 1259941 A1 20021127 (DE)

Application

EP 01913549 A 20010131

Priority

- DE 0100362 W 20010131
- DE 10007308 A 20000217

Abstract (en)

[origin: WO0161653A1] The invention relates to a method and device for recording serviceable lives, especially up to the technical failure, of a product and for determining the remaining serviceable life of the product. The aim of the invention is to be able to estimate, in a manner that is as precise as possible and without support provided by a model, the lifetime for any product, which is equipped with an operational data memory or has access to such a memory, without storing temporal signal progressions. To this end, the invention provides that the determination of the remaining serviceable life of the product, the recording of serviceable lives of products, and the determination of the serviceable life threshold values are carried out on the basis of operational quantities that are subdivided in classes (so-called classified operational quantities). For this, weighting factors (a_ij) are firstly determined. Afterwards, the weighting factors (a_ij) are used in order to determine weighted cumulated serviceable lives and serviceable life threshold values. This enables the monitoring of the reliability of s = 1...S products used in series.

IPC 1-7 (main, further and additional classification)

G07C 5/08

IPC 8 full level (invention and additional information)

F02D 45/00 (2006.01); **G07C 5/08** (2006.01)

CPC (invention and additional information)

G07C 5/08 (2013.01)

Citation (search report)

See references of WO 0161653A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family

WO 0161653 A1 20010823; AT 389921 T 20080415; AU 2001239148 B2 20051201; AU 3914801 A 20010827; BR 0108490 A 20030422; CN 1313983 C 20070502; CN 1422415 A 20030604; DE 10007308 A1 20010823; DE 10190532 D2 20030130; DE 50113758 D1 20080430; EP 1259941 A1 20021127; EP 1259941 B1 20080319; JP 2003523588 A 20030805; JP 4813732 B2 20111109; US 2003101019 A1 20030529; US 7076396 B2 20060711