

Title (en)

METHOD FOR THE DETECTION OF DAMAGE TO SPACECRAFT CAUSED BY THE IMPACT OF FOREIGN BODIES

Title (de)

VERFAHREN ZUR ERFASSUNG VON DURCH DEN AUFPRALL VON FREMDKÖRPERN VERURSACHTEN BESCHÄDIGUNGEN AN RAUMFAHRZEUGEN

Title (fr)

PROCEDE PERMETTANT DE DETERMINER DES DOMMAGES OCCASIONNES PAR L'IMPACT DE CORPS ETRANGERS SUR DES ENGINES SPATIAUX

Publication

EP 1478940 A1 20041124 (DE)

Application

EP 03704310 A 20030215

Priority

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Abstract (en)

[origin: WO03073122A1] Disclosed is a method for detecting damage to spacecraft caused by the impact of foreign bodies, according to which the ultrasonic waves generated by an impact are electronically registered and are fed to an evaluation unit mathematically locating the damage. The registering process and the evaluation process are automatically triggered and known ultrasonic waves that are caused by foreign systems are masked. A device for carrying out the inventive method comprises at least three ultrasonic sensors which are positioned on the surface of the body that is to be monitored and an electronic detection and evaluation unit assigned thereto.

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G01S 5/22; **F41J 5/056**

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CPC (source: EP US)

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Citation (search report)

See references of WO 03073122A1

Citation (examination)

- US 2001047691 A1 20011206 - DZENIS YURIS [US]
- "DETECTING IMPACTS OF PARTICLES ON SPACECRAFT", NTIS TECH NOTES, US DEPARTMENT OF COMMERCE. SPRINGFIELD, VA, US, 1 January 1990 (1990-01-01), pages 49, XP000104295, ISSN: 0889-8464

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