

Title (en)  
SYSTEM AND METHOD FOR MONITORING DISPLACEMENTS OF POINTS ON A SURFACE OF A PART OF AN AIRCRAFT OR SPACECRAFT

Title (de)  
SYSTEM UND VERFAHREN ZUR ÜBERWACHUNG DER VERSCHIEBUNGEN VON PUNKTEN AUF EINER OBERFLÄCHE EINES TEILS EINES LUFT- ODER RAUMFAHRZEUGS

Title (fr)  
SYSTÈME ET PROCÉDÉ DE SURVEILLANCE DE DÉPLACEMENTS DE POINTS SUR LA SURFACE D'UNE PIÈCE D'AÉRONEF OU D'ENGIN SPATIAL

Publication  
**EP 4367472 A1 20240515 (EN)**

Application  
**EP 22829604 A 20221209**

Priority

- IT 202100031499 A 20211216
- IB 2022061970 W 20221209

Abstract (en)  
[origin: WO2023111793A1] The system (10) for monitoring displacements (Di) of points (Pi) on a surface (S) of a part (C) of an aircraft or spacecraft comprises: reference elements (16) arranged at a respective point (Pi); a laser telemeter (12) to emit a beam (20) to scan the surface (S); when the beam (20) is reflected by a reference element (16), to measure a respective reflection parameter (Xi) and to generate a signal representative of the distance (di) of the reference element (16) from the laser telemeter (12); an electronic control unit (18) configured for, for each point (Pi), determining an end position (Li') by processing a signal representative of the initial position (Li), the signal representative of the distance (di) of the reference element (16), and signals representative of the value of a first angular coordinate (Ai) and a second angular coordinate (Bi) indicative of the direction of the beam (20).

IPC 8 full level  
**G01B 11/16** (2006.01); **G01B 11/00** (2006.01); **G01S 17/14** (2020.01); **G01S 17/66** (2006.01)

CPC (source: EP)  
**G01B 11/002** (2013.01); **G01B 11/16** (2013.01); **G01S 17/66** (2013.01)

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2023111793 A1 20230622**; EP 4367472 A1 20240515; IT 202100031499 A1 20230616

DOCDB simple family (application)  
**IB 2022061970 W 20221209**; EP 22829604 A 20221209; IT 202100031499 A 20211216