

Title (en)

METHOD FOR RECONSTRUCTING A SURFACE OF A PART

Title (de)

VERFAHREN ZUR REKONSTRUKTION EINER OBERFLÄCHE EINES TEILS

Title (fr)

PROCEDE DE RECONSTRUCTION D'UNE SURFACE D'UNE PIECE

Publication

EP 3071992 A1 20160928 (FR)

Application

EP 14802033 A 20141120

Priority

- FR 1361502 A 20131122
- EP 2014075145 W 20141120

Abstract (en)

[origin: WO2015075121A1] The invention relates to a method for reconstructing a profile of a part (10), using a transceiver device (12) including N elements, said device being suitable for transmitting a wave propagating in a medium, comprising at least the following steps: A) collecting the signals $S_{i,j}$ reflected by the part exposed to the wave; B) measuring the flight time of the surface echo t_j for a plurality of transceiver pairs $\{E1, Rj\}$; C) building the family of ellipses Γ_c associated with said transmitter pairs $\{E1, Rj\}$; D) computing the envelope of the family of ellipses Γ_c ; and E) from said envelope, determining the points P_i that make up the profile of the part.

IPC 8 full level

G01S 15/88 (2006.01); **G01B 17/06** (2006.01); **G01S 15/89** (2006.01)

CPC (source: EP US)

G01S 15/88 (2013.01 - EP US); **G01S 15/89** (2013.01 - EP US); **G01S 15/8915** (2013.01 - EP US)

Citation (search report)

See references of WO 2015075121A1

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)

WO 2015075121 A1 20150528; CA 2931167 A1 20150528; EP 3071992 A1 20160928; FR 3013850 A1 20150529; FR 3013850 B1 20170721; JP 2017500553 A 20170105; US 2016299226 A1 20161013

DOCDB simple family (application)

EP 2014075145 W 20141120; CA 2931167 A 20141120; EP 14802033 A 20141120; FR 1361502 A 20131122; JP 2016533022 A 20141120; US 201415036758 A 20141120