

Title (en)

PORTABLE MATRIX PHASED ARRAY SPOT-WELD INSPECTION SYSTEM

Title (de)

TRAGBARES MATRIXPHASENGESTEUERTES PUNKTSCHWEISSINSPEKTIONSSYSTEM

Title (fr)

SYSTÈME D'INSPECTION DE POINTS DE SOUDURE À RÉSEAU À COMMANDE DE PHASE À MATRICE PORTABLE

Publication

**EP 3108233 A1 20161228 (EN)**

Application

**EP 15751432 A 20150216**

Priority

- US 201414183643 A 20140219
- US 2015016042 W 20150216

Abstract (en)

[origin: WO2015126787A1] A portable system for non-destructively characterizing spot welds that includes at least one matrix phased array probe and a body, wherein the body is designed to be hand-held and further includes an economically designed outer casing; at least one input for connecting to the at least one matrix phased array probe; ultrasonic phased array transmitting and receiving circuitry in electrical communication with the at least one input; a touch screen computer that further includes at least one data processor running software that includes at least one imaging algorithm for processing data received from the probe and generating color coded ultrasonic C-scan images of characterized welds; and at least one monitor for displaying the color coded ultrasonic C-scan images of the characterized welds in real time.

IPC 8 full level

**G01N 29/04** (2006.01); **G06F 19/00** (2011.01)

CPC (source: EP KR)

**B23K 11/08** (2013.01 - EP); **B23K 11/115** (2013.01 - EP); **B23K 11/16** (2013.01 - EP); **B23K 20/122** (2013.01 - EP); **B23K 20/227** (2013.01 - EP); **B23K 20/2336** (2013.01 - EP); **B23K 26/21** (2015.10 - EP); **B23K 26/32** (2013.01 - EP); **B23K 31/125** (2013.01 - EP); **G01N 29/11** (2013.01 - EP KR); **G01N 29/226** (2013.01 - EP); **G01N 29/262** (2013.01 - EP KR); **B23K 2101/006** (2018.07 - EP); **B23K 2103/04** (2018.07 - EP); **B23K 2103/10** (2018.07 - EP); **G01N 2291/106** (2013.01 - EP KR); **G01N 2291/2638** (2013.01 - EP KR); **G01N 2291/2672** (2013.01 - EP KR)

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 2015126787 A1 20150827**; CN 106257999 A 20161228; EP 3108233 A1 20161228; EP 3108233 A4 20171004; JP 2017509873 A 20170406; KR 20160122165 A 20161021

DOCDB simple family (application)

**US 2015016042 W 20150216**; CN 201580009190 A 20150216; EP 15751432 A 20150216; JP 2016552906 A 20150216; KR 20167022588 A 20150216