

Title (en)

METHOD FOR MONITORING A RESISTANCE WELDING PROCESS AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR ÜBERWACHUNG EINES WIDERSTANDSSCHWEISSVERFAHRENS UND VORRICHTUNG DAFÜR

Title (fr)

PROCEDE DE SUPERVISION D'UN PROCEDE DE SOUDAGE PAR RESISTANCE ET DISPOSITIF POUR LA MISE EN OEUVRE DE CE PROCEDE

Publication

EP 1776203 A1 20070425 (FR)

Application

EP 05781893 A 20050627

Priority

- FR 2005050504 W 20050627
- FR 0407056 A 20040628

Abstract (en)

[origin: WO2006003347A1] A method for monitoring a resistance welding process carried out on a stack of metal workpieces (1) clamped between two electrodes (2a, 2b) of a clamp (3), and a device therefor. According to the method, the electrodes (2a, 2b) are subjected to a clamping force (F) and a voltage (V(t)) enabling a current (I(t)) to flow through the stack of metal workpieces (1). The monitoring method further includes at least one step of analysing the clamping force (F) by comparison with a model from a prior learning process. The result of the analysis of each step is taken into account by a decision-making matrix to generate a correction and/or control signal intended for the welding process.

IPC 8 full level

B23K 11/25 (2006.01)

CPC (source: EP US)

B23K 11/255 (2013.01 - EP US)

Citation (search report)

See references of WO 2006003347A1

Citation (examination)

- US 5434382 A 19950718 - SCHLATTI WERNER [DE], et al
- US 5471028 A 19951128 - KAWAI SHINGO [JP]

Designated contracting state (EPC)

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