

Title (en)
DYNAMIC INDUCTION WELDING INSTALLATION

Title (de)
DYNAMISCHE INDUKTIONSSCHWEISSANLAGE

Title (fr)
INSTALLATION DE SOUDAGE DYNAMIQUE PAR INDUCTION

Publication
EP 4347228 A1 20240410 (FR)

Application
EP 22728636 A 20220524

Priority
• FR 2105412 A 20210525
• EP 2022063962 W 20220524

Abstract (en)
[origin: WO2022248428A1] The invention relates to an installation (1) for dynamic induction welding of a first part (2) to a second part (3), the first and second parts (2, 3) each comprising a composite material having reinforcing fibres and a thermoplastic polymer material, the first part (2) comprising at least one core (4) and a sole (5), the sole (5) having a surface (6) to be welded to the second part (3) and a surface (7) that is opposite the surface (6) to be welded, said installation (1) comprising: - an induction heating device (8) disposed on the side of the opposite surface (7), in the vicinity of the core (4), - at least one passive magnetic field damper (11) configured and arranged so as to make it possible to create a reaction magnetic field (B2) that is at least partially, and in particular completely, opposite to the magnetic field (B1) created by the induction heating device (8) in at least a part of the core (4) located close to the surface (6) to be welded of the first part (2).

IPC 8 full level
B29C 65/36 (2006.01); **B64C 1/12** (2006.01); **B64D 45/02** (2006.01); **B64F 5/10** (2017.01); **B29K 101/12** (2006.01); **B29K 105/08** (2006.01); **B29K 305/00** (2006.01); **B29K 307/04** (2006.01)

CPC (source: EP)
B29C 65/3636 (2013.01); **B29C 65/3668** (2013.01); **B29C 66/112** (2013.01); **B29C 66/1122** (2013.01); **B29C 66/131** (2013.01); **B29C 66/3472** (2013.01); **B29C 66/3474** (2013.01); **B29C 66/348** (2013.01); **B29C 66/474** (2013.01); **B29C 66/524** (2013.01); **B29C 66/532** (2013.01); **B29C 66/61** (2013.01); **B29C 66/7212** (2013.01); **B29C 66/72141** (2013.01); **B29C 66/73921** (2013.01); **B29C 66/81835** (2013.01); **B29C 66/836** (2013.01); **B29C 66/8362** (2013.01); **B29C 66/863** (2013.01); **B29C 66/43441** (2013.01); **B29L 2031/3082** (2013.01); **B64C 1/12** (2013.01); **B64C 2001/0072** (2013.01); **B64D 45/02** (2013.01); **B64F 5/10** (2017.01)

C-Set (source: EP)
1. **B29C 66/7212 + B29K 2307/04**
2. **B29C 66/7212 + B29K 2305/00**

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022248428 A1 20221201; EP 4347228 A1 20240410; FR 3123247 A1 20221202; FR 3123247 B1 20230505

DOCDB simple family (application)
EP 2022063962 W 20220524; EP 22728636 A 20220524; FR 2105412 A 20210525