

Title (en)  
WELDING DEVICE AND WELDING METHOD

Title (de)  
SCHWEISSVORRICHTUNG UND -VERFAHREN

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE SOUDAGE

Publication  
**EP 3691824 A1 20200812 (DE)**

Application  
**EP 18780115 A 20181002**

Priority  
• EP 17195116 A 20171006  
• EP 2018076718 W 20181002

Abstract (en)  
[origin: WO2019068672A1] Disclosed are a device (10) and a method for welding a weld stud (20) to a substrate (30). A welding current (61, 62) is applied to a weld stud (20) between the weld stud (20) and the substrate (30) such that a material of the weld stud (20) and of the substrate (30) partially liquefies. The weld stud (20) is then immersed into the solidifying material of the weld stud (20) and/or of the substrate (30) so as to establish an integral bond between the weld stud (20) and the substrate (30).

IPC 8 full level  
**B23K 9/20** (2006.01); **B23K 9/095** (2006.01)

CPC (source: EP US)  
**B23K 9/0956** (2013.01 - EP); **B23K 9/202** (2013.01 - EP US); **B23K 9/205** (2013.01 - US); **B23K 9/0956** (2013.01 - US); **B23K 9/206** (2013.01 - US); **B23K 31/125** (2013.01 - US); **B23K 35/0288** (2013.01 - US)

Citation (search report)  
See references of WO 2019068672A1

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)  
**EP 3466586 A1 20190410**; EP 3691824 A1 20200812; US 2020238424 A1 20200730; WO 2019068672 A1 20190411

DOCDB simple family (application)  
**EP 17195116 A 20171006**; EP 18780115 A 20181002; EP 2018076718 W 20181002; US 201816652259 A 20181002