

Title (en)  
DEVICE AND METHOD FOR HYBRID WELDING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM HYBRIDSCHWEISSEN

Title (fr)  
DISPOSITIF ET PROCEDE DE SOUDAGE HYBRIDE

Publication  
**EP 1446258 A1 20040818 (FR)**

Application  
**EP 02795383 A 20021119**

Priority  
• FR 0203943 W 20021119  
• FR 0115122 A 20011122

Abstract (en)  
[origin: FR2832337A1] The invention concerns a hybrid welding device (1) comprising laser welding means (2) and electric arc welding means (4) with fusible electrode (6). The inventive device (1) is designed such that the fusible electrode (6) comprises a substantially rectangular cross-section. The invention also concerns a hybrid welding method designed to be implemented by said device. The invention is applicable to the automotive industry.  
[origin: FR2832337A1] The hybrid equipment (1) includes a laser welder (2) and an electric arc welder (4). The laser welder may be either a Nd-YAG or carbon dioxide type, the former having a fibre optic (10) delivery giving a better flexibility and focussing on a pool of fused metal (12). The electric welder has a fusible electrode (6) with a rectangular cross section able to deliver metal in a ribbon (18) on to the pieces (3) for welding.

IPC 1-7  
**B23K 26/14**; **B23K 28/02**

IPC 8 full level  
**B23K 26/14** (2006.01); **B23K 28/02** (2006.01)

CPC (source: EP US)  
**B23K 26/348** (2015.10 - EP US); **B23K 28/02** (2013.01 - EP US); **B23K 2101/32** (2018.07 - EP US)

Citation (search report)  
See references of WO 03043776A1

Cited by  
CN103252589A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**FR 2832337 A1 20030523**; **FR 2832337 B1 20040123**; EP 1446258 A1 20040818; US 2005006355 A1 20050113; WO 03043776 A1 20030530

DOCDB simple family (application)  
**FR 0115122 A 20011122**; EP 02795383 A 20021119; FR 0203943 W 20021119; US 49591004 A 20040519