

Title (en)  
TYPE-FLEXIBLE UNIT FOR THE EFFICIENT WELDING OF THE ESSENTIAL COMPONENTS OF A VEHICLE CHASSIS ON PRODUCTION OF THE PROTOTYPE THEREOF

Title (de)  
TYPFLEXIBLE ANLAGE ZUM RATIONELLEN ZUSAMMENSCHWEISSEN DER WESENTLICHEN BAUGRUPPEN EINER FAHRZEUGKAROSSERIE BEI DEREN PROTOTYPFERTIGUNG

Title (fr)  
DISPOSITIF MODULAIRE DESTINE AU SOUDAGE RATIONNEL DES COMPOSANTS ESSENTIELS D'UNE CARROSSERIE AUTOMOBILE LORS DE LA FABRICATION DU PROTOTYPE

Publication  
**EP 1448337 A1 20040825 (DE)**

Application  
**EP 02782830 A 20021004**

Priority  
• DE 10158264 A 20011128  
• EP 0211146 W 20021004

Abstract (en)  
[origin: DE10158264C1] According to the invention, the components of the prototype chassis are precisely assembled in a first cage-like locking tacking station and tacked together through openings in the cage. In a subsequent welding station the tacked sheet pieces of the chassis, only supported on the underside thereof, but otherwise freely accessible from all sides, are fully welded together. By means of the above separation, prototype production can be achieved in an efficient and ergonomic manner. As far as possible the individual parts and system components of the production unit are embodied as module elements normalized to conform to the system, which as a result of a grid of plug and connector openings can be rapidly and nonetheless precisely assembled in various configurations and universally, in other words type-flexibly converted.

IPC 1-7  
**B23K 37/04**; **B62D 65/00**

IPC 8 full level  
**B62D 65/00** (2006.01); **B23K 37/00** (2006.01); **B23K 37/04** (2006.01); **B23K 37/047** (2006.01); **B62D 65/02** (2006.01); **B62D 65/04** (2006.01)

CPC (source: EP US)  
**B23K 37/047** (2013.01 - EP US); **B62D 65/02** (2013.01 - EP US); **B62D 65/04** (2013.01 - EP US)

Citation (search report)  
See references of WO 03045620A1

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)  
**DE 10158264 C1 20021031**; EP 1448337 A1 20040825; JP 2005510367 A 20050421; US 2005103821 A1 20050519; WO 03045620 A1 20030605

DOCDB simple family (application)  
**DE 10158264 A 20011128**; EP 0211146 W 20021004; EP 02782830 A 20021004; JP 2003547106 A 20021004; US 49707204 A 20041119