

Title (en)

Method for clinching of a ductile part with two non-ductile components

Title (de)

Verfahren zum Clinchen von einem duktilen Bauteil mit zwei nicht-duktile Bauteilen

Title (fr)

Procédé de rivetage d'un composant ductile avec deux composants non ductiles

Publication

EP 2664393 A3 20140611 (DE)

Application

EP 13165122 A 20130424

Priority

DE 102012208163 A 20120516

Abstract (en)

[origin: EP2664393A2] The method involves placing the central component (30) and the lower stamper side component (40) together, such that the pilot holes (31) of the components are arranged in alignment with one another. A setting die (15) of the clinching device (1) is moved in the direction of a recess (4) of the anvil (3), and an area (22) of the die side component (20) is pulled through the pilot holes of the central component and of the stamper side component into the recess until the entrained area is pressed to a stop surface (6) in the recess of the stamper (2) by the setting die.

IPC 8 full level

B21D 39/03 (2006.01)

CPC (source: EP)

B21D 39/032 (2013.01)

Citation (search report)

- [Y] DE 19720867 C1 19980903 - BROSE FAHRZEUGTEILE [DE]
- [Y] DE 10329447 A1 20050210 - DAIMLER CHRYSLER AG [DE], et al
- [Y] EP 0155618 A2 19850925 - ECKOLD GERD JUERGEN [DE], et al
- [A] US 2010088881 A1 20100415 - JAMESON JONATHAN [US]

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 2664393 A2 20131120; EP 2664393 A3 20140611; EP 2664393 B1 20160608; DE 102012208163 A1 20131121

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