

Title (en)

Process and device for removing punch rivets from a workpiece

Title (de)

Verfahren und Vorrichtung zum Entfernen von Stanznieten

Title (fr)

Procédé et dispositif d'enlèvement de rivets poinçonnants

Publication

EP 1136155 A2 20010926 (EN)

Application

EP 01302304 A 20010313

Priority

DE 10012845 A 20000316

Abstract (en)

The invention relates to a process and a device for removing punch rivets (23) set in a workpiece (12,13), which are tubular and axisymmetric in design. Upon setting of the punch rivet (23) a punched-out piece (21) remaining therein is removed by a tool (18) and thereafter a threaded mandrel (20) is screwed into the punch rivet (23) with simultaneous formation of a substantially continuous distinctive thread. Upon its subsequent withdrawal counter to the pressure of an abutment (22) resting on the workpiece (12,13) the threaded mandrel (20) withdraws the punch rivet (23) from the workpiece (12,13). <IMAGE>

IPC 1-7

B21J 15/50; B21J 15/02

IPC 8 full level

B25B 27/067 (2006.01); **B21J 15/02** (2006.01); **B21J 15/50** (2006.01); **B25B 27/073** (2006.01)

CPC (source: EP)

B21J 15/025 (2013.01); **B21J 15/50** (2013.01)

Cited by

EP1645358A3; CN106181856A; WO2016036253A1; WO2015017942A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1136155 A2 20010926; EP 1136155 A3 20020206; DE 10012845 A1 20010920; JP 2001293536 A 20011023

DOCDB simple family (application)

EP 01302304 A 20010313; DE 10012845 A 20000316; JP 2001075556 A 20010316