

Title (en)
Mechanical assembly device

Title (de)
Vorrichtung zum mechanischen Fügen

Title (fr)
Dispositif d'assemblage mécanique

Publication
EP 0995515 A3 20020703 (DE)

Application
EP 99119411 A 19990930

Priority
DE 19847794 A 19981016

Abstract (en)
[origin: DE19847794C1] The appts. to form a shaped joint between two sheet plates has a limit at the shaping tool as a switch bolt (14). On a tool movement which reaches the required penetration depth, the limit (14) is moved against a switch rod (17), which is locked to the closure (22) of a valve (18) for the fluid supply in a release ratchet grip, to define the limit of the downwards movement. When engaged, the ratchet grip maintains a fluid flow, and the switch rod (17) acts as a trip for the ratchet to release the closure (22), switch the valve (18) and block the fluid flow.

IPC 1-7
B21D 39/03

IPC 8 full level
B21D 39/03 (2006.01)

CPC (source: EP US)
B21D 39/031 (2013.01 - EP US); **Y10T 29/49936** (2015.01 - EP US); **Y10T 29/53065** (2015.01 - EP US); **Y10T 29/53996** (2015.01 - EP US)

Citation (search report)

- [DA] US 4614017 A 19860930 - ECKOLD GERD-JUERGEN [DE], et al
- [DA] US 4972565 A 19901127 - ECKOLD GERD-JURGEN [DE], et al
- [A] DE 3131301 A1 19830224 - SIEMENS AG [DE]

Cited by
DE10021781A1; DE10021781B4; WO02068139A1

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

DOCDB simple family (publication)
DE 19847794 C1 19990819; CA 2284090 A1 20000416; EP 0995515 A2 20000426; EP 0995515 A3 20020703; EP 0995515 B1 20040225; JP 2000117361 A 20000425; US 6240627 B1 20010605

DOCDB simple family (application)
DE 19847794 A 19981016; CA 2284090 A 19990928; EP 99119411 A 19990930; JP 29284199 A 19991014; US 41881599 A 19991015