

Title (en)
Apparatus for joining metal sheets together

Title (de)
Vorrichtung zum Durchsetzfügen von Blechteilen

Title (fr)
Dispositif d'agrafage de pièce en tôle

Publication
EP 0853990 A3 19980923 (DE)

Application
EP 98100247 A 19980109

Priority
DE 29700868 U 19970121

IPC 1-7
B21D 39/03

IPC 8 full level
B21D 39/03 (2006.01)

CPC (source: EP)
B21D 39/031 (2013.01)

Citation (search report)

- [XY] JP H0839167 A 19960213 - NAT HOUSE IND
- [Y] US 4614017 A 19860930 - ECKOLD GERD-JUERGEN [DE], et al
- [X] US 5581860 A 19961210 - SAWDON EDWIN G [US]
- [A] US 5528815 A 19960625 - WEBB EDWARD L T [AU]

Cited by
DE102019108902A1; CN111864130A

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

DOCDB simple family (publication)
DE 29700868 U1 19970515; AT E216641 T1 20020515; AT E252430 T1 20031115; DE 59803891 D1 20020529; DE 59809985 D1 20031127; EP 0853990 A2 19980722; EP 0853990 A3 19980923; EP 0853990 B1 20020424; EP 1186359 A1 20020313; EP 1186359 B1 20031022; ES 2176818 T3 20021201; ES 2210083 T3 20040701

DOCDB simple family (application)
DE 29700868 U 19970121; AT 01124550 T 19980109; AT 98100247 T 19980109; DE 59803891 T 19980109; DE 59809985 T 19980109; EP 01124550 A 19980109; EP 98100247 A 19980109; ES 01124550 T 19980109; ES 98100247 T 19980109