

Title (en)
Crimping ring and method of making it

Title (de)
Klemmring und Verfahren zur Herstellung

Title (fr)
Bague à retreindre et son procédé de fabrication

Publication
EP 0610108 B1 19960821 (FR)

Application
EP 94400093 A 19940114

Priority
FR 9301053 A 19930201

Abstract (en)
[origin: EP0610108A1] Crimping ring constituted by a portion of metal band, wound on itself, the two ends of which are connected together without causing the appearance of an appreciable additional thickness in the connection area. The ends of the band (1) are arranged substantially in contact with each other along their terminal edge (4a, 5a), the thickness of each of the said ends being approximately half the thickness of the band. Their internal face is offset towards the outside with respect to the internal surface of the ring so as to constitute a housing (11) for a plate (8), the thickness of which is approximately half that of the band. A set of studs (6, 7) and of complementary holes (9, 10) is provided on the ends of the band and on the plate, the said studs being engaged in the holes and their free end being riveted onto the element opposite the one which bears them. <IMAGE>

IPC 1-7
B21D 39/03; F16L 13/14; B21D 53/16

IPC 8 full level
B01D 63/12 (2006.01); **B21D 39/03** (2006.01); **B21D 53/16** (2006.01); **F16L 13/14** (2006.01); **F16L 33/02** (2006.01)

CPC (source: EP KR US)
B21D 39/03 (2013.01 - EP US); **B21D 53/00** (2013.01 - KR); **B21D 53/16** (2013.01 - EP US); **Y10T 24/1467** (2015.01 - EP US);
Y10T 24/1478 (2015.01 - EP US); **Y10T 29/49798** (2015.01 - EP US); **Y10T 29/49943** (2015.01 - EP US); **Y10T 29/49956** (2015.01 - EP US)

Cited by
FR2790214A1; US6446321B1; FR2790213A1; US6557216B1; US6481061B1; WO0050182A1; WO0050183A1

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

DOCDB simple family (publication)
EP 0610108 A1 19940810; EP 0610108 B1 19960821; AT E141531 T1 19960915; CA 2113586 A1 19940802; CA 2113586 C 20020108;
CN 1043411 C 19990519; CN 1097363 A 19950118; CZ 21494 A3 19940817; CZ 289612 B6 20020313; DE 69400378 D1 19960926;
DE 69400378 T2 19970306; DK 0610108 T3 19970120; ES 2093488 T3 19961216; FR 2700980 A1 19940805; FR 2700980 B1 19950421;
GR 3021540 T3 19970228; HU 212890 B 19961230; HU 9400284 D0 19940530; HU T67524 A 19950428; JP 3452622 B2 20030929;
JP H0747438 A 19950221; KR 100248238 B1 20000401; KR 940019373 A 19940914; PL 172659 B1 19971031; PL 302101 A1 19940808;
RU 2120832 C1 19981027; TW 333873 U 19980611; US 5469604 A 19951128; US 5634254 A 19970603

DOCDB simple family (application)
EP 94400093 A 19940114; AT 94400093 T 19940114; CA 2113586 A 19940117; CN 94101197 A 19940131; CZ 21494 A 19940201;
DE 69400378 T 19940114; DK 94400093 T 19940114; ES 94400093 T 19940114; FR 9301053 A 19930201; GR 960402914 T 19961106;
HU 9400284 A 19940201; JP 918394 A 19940131; KR 19940001802 A 19940201; PL 30210194 A 19940131; RU 94002322 A 19940131;
TW 86211504 U 19940120; US 18293894 A 19940118; US 45283395 A 19950530