

Title (en)
Method of producing a piece having the form of a hollow profile

Title (de)
Verfahren zur Herstellung eines hohlprofilförmigen Bauteils

Title (fr)
Méthode de production d' une pièce ayant la forme d' un profilé creux

Publication
EP 0893172 B1 20001129 (DE)

Application
EP 98112423 A 19980704

Priority
DE 19730481 A 19970716

Abstract (en)
[origin: DE19730481C1] A hollow profile of light metal or other materials with low breaking stretch is expanded by internal high pressure forming. A sleeve (5) of a material with higher ductility than light metal, e.g. steel, is positioned on the hollow profile (4). During expansion of a profile section (13) using high forming levels exceeding the ductility of light metal, that section is covered. The profile within this section is expanded by internal high pressure to beyond burst limit, the sleeve above the burst part of the finished profile is directly pressure-charged and expanded on its own, until the final shape of the component within the area covered by the sleeve is achieved.

IPC 1-7
B21D 26/02

IPC 8 full level
B21D 26/02 (2011.01); **B21D 26/051** (2011.01); **B21D 26/053** (2011.01)

CPC (source: EP US)
B21D 26/051 (2013.01 - EP US); **B21D 26/053** (2013.01 - EP US); **Y10T 29/49622** (2015.01 - EP US); **Y10T 29/49805** (2015.01 - EP US); **Y10T 29/4994** (2015.01 - EP US)

Cited by
CN102240719A; DE10219878B4; US7673377B2

Designated contracting state (EPC)
ES FR GB IT SE

DOCDB simple family (publication)
DE 19730481 C1 19980709; EP 0893172 A1 19990127; EP 0893172 B1 20001129; ES 2153698 T3 20010301; US 6065211 A 20000523; US 6299242 B1 20011009

DOCDB simple family (application)
DE 19730481 A 19970716; EP 98112423 A 19980704; ES 98112423 T 19980704; US 11644098 A 19980716; US 54957800 A 20000414