

Title (en)
A PUNCH STRIPPER ASSEMBLY AND METHOD OF MAKING SAME

Publication
EP 0000762 B1 19811223 (EN)

Application
EP 78100558 A 19780731

Priority
US 82340477 A 19770810

Abstract (en)
[origin: US4166403A] {PG,1 A punch guide and stripper is molded from plastics material to the exact configuration of the punch and is supported and reinforced by a rigid punch receiving member to engage a workpiece around the slug to be punched therefrom and strip the punch from the workpiece without bulging or damaging the workpiece. The plastics material is molded in situ around the active end or nose of the punch within a rigid metal punch guide at the punch exiting end of the guide to a height or thickness sufficiently to guide and laterally support the nose of the punch throughout its stroke. The surrounding rigid punch guide prevents lateral displacement or distortion of the plastics material and terminates either flush with or just short of the workpiece engaging face of the plastics material. The {pg,2 active end of the punch is of smaller diameter than the main body of the punch and may have any desired configuration with a shoulder extending from the reduced section to the full diameter of the punch. The punch is projected from the surrounding guide beyond the maximum stroke of the punch thereby providing a molding chamber or cavity bounded by the nose or head of the punch, the shoulder, and the surrounding punch guide. A hardenable viscous plastics material is poured into this chamber, cured or otherwise hardened to form the stripper body, the punch is retracted, and the hardened plastics material is ground flush with or just beyond the end edge of the guide to form the workpiece engaging face. An undercut can be provided in the guide to further anchor the stripper body.

IPC 1-7
B21D 45/00; **B29C 5/00**; **B29C 17/08**

IPC 8 full level
B21D 28/34 (2006.01); **B21D 45/00** (2006.01)

CPC (source: EP US)
B21D 28/34 (2013.01 - EP US); **B21D 28/346** (2013.01 - EP US); **B21D 45/006** (2013.01 - EP US); **Y10T 83/04** (2015.04 - EP US); **Y10T 83/2157** (2015.04 - EP US); **Y10T 83/2172** (2015.04 - EP US)

Cited by
EP0694351A1; US5647256A; EP0244524A1; US5813301A; US5839341A; EP0644005A3; US5832798A; EP0398253A1; EP2839897A1; EP0611188A1; US5445057A; EP0723826A1; EP0640417A1; US9579920B2; WO2015024645A1; WO2013149630A1; EP2834026B1

Designated contracting state (EPC)
CH DE FR GB

DOCDB simple family (publication)
EP 0000762 A1 19790221; **EP 0000762 B1 19811223**; CA 1086214 A 19800923; DE 2861451 D1 19820211; DK 350778 A 19790211; US 4166403 A 19790904

DOCDB simple family (application)
EP 78100558 A 19780731; CA 308456 A 19780731; DE 2861451 T 19780731; DK 350778 A 19780808; US 82340477 A 19770810