

Title (en)  
HOLLOW COMPOSITE ARTICLE AND PROCESS FOR THE MANUFACTURE THEREOF

Publication  
**EP 0019569 B1 19821124 (FR)**

Application  
**EP 80420061 A 19800514**

Priority  
FR 7913289 A 19790516

Abstract (en)  
[origin: US4297777A] A method for the production of a composite hollow body formed of aluminum alloys and composed of two layers having differing structure. One layer of the hollow body is intended to operate in contact with a mobile surface and is produced by extruding a mixture of particles of a hypereutectic silicon alloy having fine grains and an addition product. The other layer is selected from among alloys having certain particular properties and has the structure of a cast and wrought product. The present method particularly consists of the step of joining the two layers by coextrusion on a mandrel in an inverse extrusion press. The composite hollow bodies so produced are used in the production of linings for internal combustion engines or for jacks.

IPC 1-7  
**B22F 7/08**; **F02F 1/08**; **B22F 3/20**

IPC 8 full level  
**B21C 23/22** (2006.01); **B22D 19/08** (2006.01); **B22F 3/20** (2006.01); **B21C 23/01** (2006.01); **B22F 5/12** (2006.01); **B22F 7/06** (2006.01); **F02F 1/08** (2006.01)

CPC (source: EP US)  
**B22F 3/20** (2013.01 - EP US); **B22F 7/062** (2013.01 - EP US); **F02F 1/08** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US)

C-Set (source: EP US)  
**B22F 2998/00** + **B22F 7/08**

Cited by  
EP0133144A1; FR2549493A1; EP1384539A1; FR2842828A1; EP0328898A1; US4921664A; CH675089A5; US7749342B2; WO2004011687A3

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