

Title (en)

SINTERED BODIES OF COMPOSITE MATERIALS AND THEIR MANUFACTURE

Publication

**EP 0035348 B1 19850123 (EN)**

Application

**EP 81300719 A 19810220**

Priority

GB 8006548 A 19800227

Abstract (en)

[origin: EP0035348A2] A body comprising a mixture of particulate materials is formed by mixing together aluminium and/or an aluminum alloy powder with a proportion of alumina powder, compacting and sintering the resultant mass, and reshaping the resultant mass under pressure after sintering. A body so formed possesses a high hot strength and, by the choice of appropriate proportions of the powdered materials is particularly suitable for forming the crown of an internal combustion engine piston. The invention also relates to the manufacture of such bodies and pistons.

IPC 1-7

**C22C 32/00; B32B 15/14; B32B 15/20; F02F 3/12; B22F 7/06**

IPC 8 full level

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**F05C 2201/021** (2013.01)

Citation (examination)

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- E. Meyer-Rässler, Sinterwerkstoffe auf Aluminium- und Eisenbasis, MAHLE Colloquium 1973

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DE 3168414 D1 19850307; DK 76381 A 19810828; ES 499888 A0 19820616; ES 8205142 A1 19820616; GB 2070068 A 19810903;  
GB 2070068 B 19840125; JP S56130411 A 19811013; NO 810644 L 19810828

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