

Title (en)  
Cast composite materials.

Title (de)  
Gegossenes Verbundmaterial.

Title (fr)  
Matériaux composites coulés.

Publication  
**EP 0671478 A2 19950913 (EN)**

Application  
**EP 95108612 A 19910712**

Priority  

- EP 91912577 A 19910712
- US 57221890 A 19900816
- US 55863090 A 19900726

Abstract (en)  
A cast composite material is formed from about 5 to about 35 volume percent of particulate reinforcement, preferably silicon carbide particles, embedded in an aluminum alloy matrix having from about 8.5 to about 12.6, preferably about 8.5 to about 11.0, weight percent silicon. The cast composite material is particularly well suited for use as a foundry alloy for remelting purposes. Other alloying elements may be added without interfering with the beneficial effects of the silicon.

IPC 1-7  
**C22C 1/10**; **B22D 27/20**

IPC 8 full level  
**B22D 27/20** (2006.01); **C22C 1/10** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP)  
**B22D 27/20** (2013.01); **C22C 1/1036** (2013.01); **C22C 1/1047** (2023.01); **C22C 32/0063** (2013.01)

Citation (applicant)  

- US 4759995 A 19880726 - SKIBO MICHAEL D [US], et al
- US 4786467 A 19881122 - SKIBO MICHAEL D [US], et al

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**WO 9201821 A1 19920206**; AU 652950 B2 19940915; AU 669309 B2 19960530; AU 7903194 A 19950216; AU 8187991 A 19920218; CA 2086520 A1 19920117; CA 2086520 C 20000627; DE 69120415 D1 19960725; DE 69120415 T2 19961031; EP 0539417 A1 19930505; EP 0539417 B1 19960619; EP 0671478 A2 19950913; EP 0671478 A3 19951129; MX 9100238 A 19920228; NO 300899 B1 19970811; NO 930141 D0 19930115; NO 930141 L 19930315; NO 971130 D0 19970312; NO 971130 L 19970315

DOCDB simple family (application)  
**CA 9100242 W 19910712**; AU 7903194 A 19941125; AU 8187991 A 19910712; CA 2086520 A 19910712; DE 69120415 T 19910712; EP 91912577 A 19910712; EP 95108612 A 19910712; MX 9100238 A 19910716; NO 930141 A 19930115; NO 971130 A 19970312