

Title (en)

HEAT RESISTANT COMPOSITE STRUCTURE

Title (de)

WÄRMEBESTÄNDIGE VERBUNDSTRUKTUR

Title (fr)

STRUCTURE COMPOSITE RESISTANT A LA CHALEUR

Publication

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Application

EP 98937933 A 19980519

Priority

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- US 87357097 A 19970612

Abstract (en)

[origin: WO9856574A1] A heat resistant composite structure has a structural or load bearing portion formed of a composite material such as graphite reinforced organic matrix composite and a pre-ceramic polymer composite heat shield formed upon the load bearing portion. The composite structure defining the load bearing portion and the pre-ceramic polymer composite formed thereon are co-cured. The pre-ceramic polymer composite layer protects the primary structure from heat damage by absorbing heat as the pre-ceramic polymer transforms into a ceramic. The heat resistant composite structure finds particular application in forming structures of the weapons' bay of a combat aircraft so as to mitigate damage to the aircraft due to inadvertent ordnance deflagration therein.

IPC 1-7

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