

Title (en)

A way to manufacture inserts for steam cooled hot gas path components

Title (de)

Verfahren zur Herstellung von Einsätzen für dampfgekühlte und heissem Gasfluss ausgesetzte Komponenten

Title (fr)

Procédé de fabrication d'inserts pour des composants placés dans un courant de gas chauds et refroidis par vapeur

Publication

EP 1358958 B1 20050330 (EN)

Application

EP 03252630 A 20030425

Priority

US 13113702 A 20020425

Abstract (en)

[origin: EP1358958A1] A method for forming inserts for steam cooled hot gas path components involves casting the inserts (10) and laser drilling (14) the cast inserts (10) with the ceramic casting core (12) still in place. Thereafter, the ceramic core (12) is removed through the use of a leachant. By laser drilling (14) the holes (16) with the ceramic core (12) still in place, the ceramic core (12) acts as a backer during the laser drilling (14) which results in more precise drilling of the inserts (10) and reduced processing time. <IMAGE>

IPC 1-7

B22D 29/00; **F01D 5/18**; **B22C 9/04**

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

CN106825503A; EP2471615A1; US8828214B2; US10099283B2; US9987677B2; US9968991B2; US10150158B2; US10137499B2; US10099276B2; US10099284B2; US10335853B2; US10046389B2; US10118217B2; US10286450B2; US10981221B2; US9975176B2

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