

Title (en)

Method of forming a cast component

Title (de)

Methode um ein Gusstück zu formen

Title (fr)

Méthode pour former une pièce coulée

Publication

EP 1764171 A1 20070321 (EN)

Application

EP 06254256 A 20060814

Priority

GB 0518802 A 20050915

Abstract (en)

A method of forming a turbine nozzle guide vane (2) for a gas turbine engine, the guide vane (2) comprising an internal cavity (14) and having internal features (16), comprises investment casting metal around a core member (30) that defines the internal cavity (14) and internal features (16) of the guide vane, removing the core member (30), and machining the guide vane (2). The process of investment casting around the core member (30) includes the step of casting at least one feature (40) external to the guide vane (2). The external feature (40) is used as a reference point to indicate the location of the internal features (16) of the guide vane (2) during the machining of the guide vane (2).

IPC 8 full level

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CPC (source: EP GB US)

B21D 53/78 (2013.01 - GB); **B22C 9/10** (2013.01 - EP US); **F01D 5/18** (2013.01 - EP US); **F05D 2230/21** (2013.01 - EP US); **F05D 2240/81** (2013.01 - EP US)

Citation (search report)

- [XA] US 4614219 A 19860930 - ANDERSON JOHN D [US], et al
- [A] EP 1541809 A2 20050615 - ROLLS ROYCE PLC [GB]

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