

Title (en)

Cooling flow control elements for turbomachine buckets and control method thereof

Title (de)

Kühlflussteuerelemente für Turbomaschinenschaufeln und Steuerungsverfahren dafür

Title (fr)

Éléments de contrôle de l'écoulement de refroidissement pour aubes de turbomachine et procédé de contrôle

Publication

EP 2532834 A2 20121212 (EN)

Application

EP 12170429 A 20120601

Priority

US 201113157423 A 20110610

Abstract (en)

A turbomachine bucket includes a base portion (56) having a first end that extends to a second end, and an airfoil portion (58) extending from the first end of the base portion (56). The airfoil portion (58) includes a first end section (68) that extends to a tip section. A plurality of cooling channels (80) extend through the turbomachine bucket from the first end of the base portion (56) to the tip portion, and a cooling flow control member is arranged in one of the plurality of cooling channels (80). The cooling flow control member creates at least a partial flow restriction in the one of the plurality of cooling channels (80) to modify cooling flow passing through the turbomachine bucket.

IPC 8 full level

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CPC (source: EP US)

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