

Title (en)
Balancing method

Title (de)
Auswuchtverfahren

Title (fr)
Procédé d'équilibrage

Publication
EP 2803867 A3 20150617 (EN)

Application
EP 14161532 A 20140325

Priority
GB 201308596 A 20130514

Abstract (en)
[origin: GB2506712A] A method of balancing a set of retaining 3 and locking 5 plates used to retain a row of gas turbine engine aerofoil blades 1 in attachment to a rotor disc 7 includes providing a weighing plate 109 having a circular track. A set of retaining and locking plates 3, 5 are arranged on the track on the weighing plate 109 against an abutment shoulder 113, and the static balance is determined by a non-rotating, static balancing apparatus. The plates 3, 5 are then repositioned on the track to arrive at a balanced arrangement for the set of plates. The locking plates may have a smaller circular extent than the retaining plates and may have a different mass per unit arc. These differences may be used to facilitate balancing. The balanced set of plates is positioned in a circumferential row at the rim of the disc to retain the blade roots in the retaining slots.

IPC 8 full level
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F01D 5/027 (2013.01 - EP GB US); **F01D 5/3015** (2013.01 - EP GB US); **F04D 29/322** (2013.01 - EP US); **F04D 29/662** (2013.01 - EP US); **Y10T 29/49321** (2015.01 - EP US); **Y10T 29/49764** (2015.01 - EP US)

Citation (search report)

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- [A] US 2009004018 A1 20090101 - DEJAUNE CLAUDE GERARD RENE [FR], et al
- [A] US 2755063 A 19560717 - HENRY WILKINSON WILFRED
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EP4345248A1

Designated contracting state (EPC)
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GB 201308596 D0 20130619; **GB 2506712 A 20140409**; **GB 2506712 B 20180502**; EP 2803867 A2 20141119; EP 2803867 A3 20150617; US 2014338193 A1 20141120

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