

Title (en)

Device for circular forming of a revolution piece, in particular a turbomachine exhaust case

Title (de)

Vorrichtung für eine Kreisverformung eines Rotationsteils, insbesondere ein Austrittsgehäuse eines Turbotriebwerks

Title (fr)

Dispositif de conformation circulaire d'une pièce de révolution, notamment un carter d'échappement d'une turbomachine

Publication

EP 2042248 A1 20090401 (FR)

Application

EP 08165031 A 20080924

Priority

FR 0757917 A 20070928

Abstract (en)

The device has a lower unit (4) comprising two shaping rollers movably mounted along an axis and a third shaping roller movably mounted along another axis. An upper unit (8) has two shaping rollers movably mounted along a third axis and a third shaping roller movably mounted along a fourth axis. A rotary plate (12) is arranged between the lower unit and the upper unit. A locking unit comprises three quarter-turn clamping plates and three clamping cylinders for locking an exhaust case (16) on the rotary plate. An independent claim is also included for a method for circular shaping of a revolution piece such as an exhaust case of a jet engine of an aircraft.

Abstract (fr)

Dispositif de conformation circulaire d'une pièce (16) de révolution, notamment un carter d'échappement d'une turbomachine. Il comporte une unité inférieure (4) comportant deux galets de conformation (32) montés mobiles suivant un axe X1 et un galet de conformation (38) monté mobile suivant un axe Y1 ; une unité supérieure (8) comportant deux galets de conformation (48) montés mobiles suivant un axe X2 et un galet de conformation (50) monté mobile suivant un axe Y2 ; un plateau tournant (12) disposé entre l'unité inférieure (4) et l'unité supérieure (8) ; des moyens de blocages (26, 28) de la pièce de révolution sur le plateau tournant (12).

IPC 8 full level

B21D 3/14 (2006.01); **B21D 53/92** (2006.01); **B23P 15/00** (2006.01)

CPC (source: EP US)

B21D 3/14 (2013.01 - EP US); **Y10T 29/4932** (2015.01 - EP US)

Citation (applicant)

- JP H07178459 A 19950718 - NISSAN MOTOR
- US 5634361 A 19970603 - HERSCHMAN GEORGE J [US], et al

Citation (search report)

- [XA] JP H07178459 A 19950718 - NISSAN MOTOR
- [A] US 5634361 A 19970603 - HERSCHMAN GEORGE J [US], et al
- [A] US 2004035164 A1 20040226 - BLASER DANNY O'NEIL [US]
- [A] JP H0319908 U 19910227

Cited by

CN112170551A; CN105107888A; CN105945095A; CN110666042A

Designated contracting state (EPC)

FR GB

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2042248 A1 20090401; **EP 2042248 B1 20110629**; CA 2639865 A1 20090328; CA 2639865 C 20151229; FR 2921572 A1 20090403; FR 2921572 B1 20091211; RU 2008138454 A 20100410; RU 2483821 C2 20130610; US 2009084150 A1 20090402; US 8161785 B2 20120424

DOCDB simple family (application)

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