

Title (en)

ROTARY BLADE TOOL FIXING DEVICE

Title (de)

DREHBLATTWERKZEUGBEFESTIGUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE FIXATION POUR OUTIL À LAME TOURNANTE

Publication

EP 2123380 A1 20091125 (EN)

Application

EP 07850889 A 20071219

Priority

- JP 2007074419 W 20071219
- JP 2007001247 A 20070109

Abstract (en)

A fixing device for fixing a rotary blade to a spindle in a bench circular saw, for example, has a structure in which it is difficult to achieve structural compactification in radial size. Therefore, there has been a problem of sacrificing an inclination angle and a cutting depth of the rotary blade. Provided is a fixing device free from such problems owing to employment of a structure which can be easily compactified in a radial direction. Cam portions (12c and 13d) are provided on respective surfaces opposite to each other of an intermediate flange (12) and an outer flange (13) so as to mesh with each other. The cam portions (12c and 13d) slide with each other with a rotational force imparted to the rotary blade so that the rotational force is converted into a displacement in a direction of an axis (J) of the intermediate flange (12) and is applied in a direction of clamping the rotary blade (2).

IPC 8 full level

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CPC (source: EP US)

B24B 45/006 (2013.01 - EP US); **B27B 5/32** (2013.01 - EP US); **B27B 5/38** (2013.01 - EP US)

Cited by

EP3202533A1; EP2455190A1; ITMO20100329A1; CN115103749A; EP3476539A1; EP4227040A1; US11103973B2; US12011802B2; WO2012055650A1; WO2017134037A1; WO2012055646A1; WO2012055649A1; WO2019081275A1; WO2021160416A1

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