

Title (en)  
Surface treatment tool and floating bearing arrangement therefor

Title (de)  
Bearbeitungsmaschine und Loslageranordnung hierzu

Title (fr)  
Machine à traitement de surface avec disposition de roulements

Publication  
**EP 1424162 B1 20070912 (DE)**

Application  
**EP 03021427 A 20030923**

Priority  
DE 10256124 A 20021129

Abstract (en)  
[origin: EP1424162A1] Processing machine comprises a machine frame (2) and a processing element (3) movably arranged via at least one drive shaft (5). One drive shaft with a movable bearing arrangement (13) is coupled to the machine frame and the processing element. The movable bearing arrangement has at least two roller bearings (16a,16b,19a,19b) coupled to each other and consisting of a first roller bearing coupled to the drive shaft and a second roller bearing arranged on the machine frame. The roller bearings have a common connecting bearing shell supporting the roller body of the coupled roller bearings and rotating and/or moving backward and forward so that the roller body is kept in motion. Independent claims are also included for: (1) Movable bearing arrangement; and (2) Process for mounting a rotating shaft with a movable bearing arrangement.

IPC 8 full level  
**B24B 7/28** (2006.01); **B24B 41/00** (2006.01); **B24B 41/04** (2006.01); **F16C 19/00** (2006.01)

CPC (source: EP US)  
**B24B 41/007** (2013.01 - EP US); **B24B 41/04** (2013.01 - EP US)

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