

Title (en)

Grinding machine for the surface machining of tubes

Title (de)

Schleifmaschine für die Oberflächenbearbeitung von Rohren

Title (fr)

Meuleuse pour le traitement de surface de tuyaux

Publication

EP 2165804 A3 20101222 (DE)

Application

EP 09171146 A 20090923

Priority

DE 102008048566 A 20080923

Abstract (en)

[origin: EP2165804A2] The machine has a clamping device (10) for fixing the machine at an end of a tube (2), and a grinding system (5) arranged at the clamping device. The grinding system is arranged outside of the tube, and has a grinder (20) movable along three axes (A, A', R, R', T, T') relative to the clamping device. The grinding system has distance sensors (80, 81) i.e. laser sensors, for measuring distance between the grinder and the tube at different positions along one of the three axes, and connected with the grinder. Another grinding system (5') is arranged within the tube. An independent claim is also included for a method for surface processing of ends of tubes.

IPC 8 full level

B24B 5/36 (2006.01); **B24B 5/37** (2006.01); **B24B 21/02** (2006.01); **B24B 27/033** (2006.01); **B24B 41/04** (2006.01); **B24B 49/02** (2006.01)

CPC (source: EP)

B24B 5/363 (2013.01); **B24B 5/37** (2013.01); **B24B 21/02** (2013.01); **B24B 27/033** (2013.01); **B24B 41/04** (2013.01); **B24B 49/02** (2013.01)

Citation (search report)

- [XY] WO 9302834 A1 19930218 - BLATTER FARROS AG [CH]
- [XY] JP H03154758 A 19910702 - KUBOTA KK
- [A] US 4483106 A 19841120 - WACHS EDWARD H [US], et al
- [A] DE 20004274 U1 20000525 - GRUNE DIETER [DE]

Cited by

CN103465143A; CN113696065A; CN102785151A; CN114178962A; US2013109282A1; US8926407B2; CN108908056A; CN111347329A; CN111633474A; CN113211082A; CN116690384A; CN117464526A; CN111531448A; CN112847091A; US8961077B2; US9636836B2

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DOCDB simple family (publication)

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DE 102008048566 B4 20110825

DOCDB simple family (application)

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