

Title (en)

MACHINE FOR REPROFILING RAIL HEADS

Publication

EP 0125348 B1 19861015 (FR)

Application

EP 83200699 A 19830517

Priority

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Abstract (en)

[origin: ES8504300A1] This machine comprises at least one grinding unit mounted to a grinding base. Each unit comprises a frame secured to the grinding base. The grinding wheel is driven by an electric motor, suspended from the frame by means of four rocker arms constituting two parallel-motion suspension systems. The lower rocker arms are levers of the first order and the grinding pressure is applied for one of the rocker arms by the piston rod of a hydraulic cylinder rigid with the frame and adapted to position the grinding wheel in relation to the rail, and for the other rocker arm by the piston rod of a pneumatic cylinder also rigid with the frame. This pneumatic cylinder determines the operating pressure of the grinding wheel on the rail. The operative face of the grinding wheel is parallel to the plane of the theoretical tangent to the rail profile. A right-angled lever is pivoted to a projection of the frame and provided at one end with a stud facing the grinding wheel. During the forward feed of the grinding wheel this stud moves from an inoperative position to the theoretical tangent and when this theoretical tangent is attained by the wheel the opposite end of the right-angled lever actuates a device for stopping and locking the feed of the grinding wheel by actuating the hydraulic positioning cylinder.

IPC 1-7

E01B 31/17

IPC 8 full level

E01B 31/17 (2006.01)

CPC (source: EP US)

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Cited by

EP0315704A1; US4908993A; US11668055B2

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EP 0125348 A1 19841121; EP 0125348 B1 19861015; AT E22949 T1 19861115; CA 1241561 A 19880906; DD 219230 A5 19850227; DE 3366980 D1 19861120; ES 532531 A0 19850401; ES 8504300 A1 19850401; JP S603302 A 19850109; US 4621460 A 19861111

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