

Title (en)
Crankpin grinding machine.

Title (de)
Kurbelzapfenschleifmaschine.

Title (fr)
Machine à rectifier les manetons d'un vilebrequin.

Publication
EP 0076635 A1 19830413 (EN)

Application
EP 82305151 A 19820929

Priority
US 30921781 A 19811007

Abstract (en)
A cylindrical grinding machine for grinding a pair (P1, P2) of axially and angularly offset crankpins (P1 to P6) on a crankshaft having a plurality of main bearings comprises a grinding wheel assembly including a grinding wheel for effective stock removal from a crankpin having a selected axial location and rotatively driven about a predetermined axis (A1). The machine also includes axial displacement means for presenting one (P2) of the crankpin pair (P1,P2) to be ground at the selected axial location with the axis of the one crankpin coaxial with the predetermined axis (A1), a workholding fixture (12) including chuck means for clamping a crankshaft placed therein, and means for presenting the other one (P1) of the crankpin pair (P1,P2) to be ground with the axis of the other crankpin coaxial with the predetermined axis (A1). The presenting means includes a spindle housing (23), a first spindle (16) rotatably supported within the spindle housing (23), a second spindle (14) eccentrically supported within the first spindle (16) for rotation therein, the workholding fixture (12) being secured to the second spindle (14) with the axes of rotation of both pins (P1, P2) of the pin pair (P1,P2) being equidistant from the axis of rotation (A2) of the second spindle. An indexing means is provided for rotating the second spindle (14) relative to the first spindle (16) a degree selected to locate the axis of the other pin (P1) coaxial with the axis of rotation (A1) of the first spindle (16).

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CPC (source: EP)
B24B 5/42 (2013.01); **B24B 5/421** (2013.01)

Citation (search report)

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