

Title (en)
PROFILING MACHINE

Publication
EP 0365976 A3 19901107 (DE)

Application
EP 89119242 A 19891017

Priority
DE 3836286 A 19881025

Abstract (en)
[origin: US4977769A] A rolling mill wherein the frame or frames for pairs of superimposed rolling tools can be lifted off the base by a crane. Each rolling tool carries a first clutch element receiving torque from a separable discrete second clutch element on a support which is adjacent a properly installed frame. The support is mounted on a reciprocable carriage, together with or independently of a drive for the second clutch elements, and can be moved in the axial direction of the tools toward and away from the adjacent frame. The upper second clutch element of the pair of second clutch elements on the support is movable up and down by a fluid-operated motor toward and away from a position of alignment with the corresponding first clutch element. The second clutch elements have pins which enter registering sockets in the adjacent first clutch elements, or vice versa, and the second clutch elements are axially movably mounted in their bearings on the support and are biased toward the respective first clutch elements. The second clutch elements are disengaged from the respective first clutch elements by moving the support away from the adjacent frame. A sensor cooperates with a stop to ensure that each movable second clutch element moves to a position of accurate alignment with the respective first clutch element, and the carriage can be moved toward the frame only when the alignment of the movable second clutch element with the respective first element is completed.

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B21D 5/08

IPC 8 full level
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CPC (source: EP US)
B21B 35/14 (2013.01 - EP US); **B21D 5/08** (2013.01 - EP US)

Citation (search report)
• [XP] EP 0320465 A2 19890614 - OTO MILLS SPA [IT]
• [Y] DE 1527981 A1 19711104 - GRIEBEL EDGAR
• [Y] DE 2856007 B1 19800514 - KRUECKELS GERHARD
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 92 (M-373)(1815) 20 April 1985, & JP-A-59 218221 (HITACHI KINZOKU K.K.) 08 Dezember 1984,

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DE102009056324A1; DE102022120537B3; EP4324573A1

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DE 3836286 C2 19920416; DE 58904968 D1 19930826; ES 2042929 T3 19931216; US 4977769 A 19901218

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