

Title (en)

METHOD OF EXECUTING ADDITIONAL PROCESSES OF WORK OPERATIONS ON BAR MATERIAL WORKPIECES AND MACHINE FOR CARRYING OUT SUCH METHOD

Publication

EP 0417703 A3 19910612 (DE)

Application

EP 90117409 A 19900910

Priority

IT 2168789 A 19890912

Abstract (en)

[origin: EP0417703A2] The machining system for bar stock secured at one end in a chuck and fed into a bending machine. Before and/or after a bending operation, the work (7) is subjected to additional operations, such as stamping, drilling, cutting, pressing or parting off. There are pref. one or more additional machining heads (13) in front of and/or behind the bending head (8), which are movable w.r.t. the work.

IPC 1-7

B21D 7/16

IPC 8 full level

B21D 7/024 (2006.01); **B21D 7/16** (2006.01)

CPC (source: EP)

B21D 7/024 (2013.01); **B21D 7/16** (2013.01)

Citation (search report)

- [X] DE 2243293 A1 19740307 - LANG LUDWIG
- [Y] EP 0088152 A1 19830914 - MATTHEY DORET BERNARD [IT], et al
- [X] EP 0299857 A2 19890118 - RENAULT [FR]
- [X] DE 1752716 A1 19710715 - STEGMANN ERNST
- [X] US 4523449 A 19850618 - MORIYAMA YUKINORI [JP], et al
- [A] WO 8700775 A1 19870212 - GARDNER R F

Cited by

ITCO20120010A1; EP0950443A1; EP1366833A1; DE102009024075A1; DE102009024075B4; FR2826889A1; US5946960A; US5927126A; EP0872292A3; EP0872293A3; US9067255B2; US8561449B2

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