

Title (en)

DEVICE FOR THE AUTOMATIC CONVEYANCE OF WORKPIECES ON A MULTISTAGE METAL-FORMING MACHINE TOOL

Title (de)

VORRICHTUNG ZUM AUTOMATISCHEN TRANSPORT VON WERKSTÜCKEN AN EINER MEHRSTUFIGEN UMFORMMASCHINE

Title (fr)

DISPOSITIF POUR LE TRANSPORT AUTOMATIQUE DE PIECES SUR UNE MACHINE DE FORMAGE A ETAGES MULTIPLES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9814289A1] A device for the automatic conveyance of workpieces on a multistage metal-forming machine tool with a tong case (1) located on a cross conveyor tube (2). Tong case (1) comprises a base body (10) on which interchangeable tong cartridges (12a, 12b, 12c), each with a pair of tongs enabling workpiece (W2,W3) to be gripped laterally from above, are placed. Each pair of tongs is connected via a coupling point (19) to means of transmission associated thereto. Said means interact with a control shaft (3) which is placed rotatably in the cross conveyor tube (2) to control opening and closing movement of tongs. Conveyance of a workpiece (W2, W3), grasped by one pair of tongs with twin interacting grippers (130, 140), from one metal-forming station (U1,U2,U3) to a neighbouring metal-forming station (U2,U3,U4) and the return movement of the tongs occur when the cross conveyor tube (2) moves back and forth. Tong travel can be adapted to workpieces by using tong cartridges (12a,12b, 12c) with tongs having appropriate lever ratios.

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