

Title (en)

ROTARY TABLE, CIRCULAR INDEXING TABLE, ASSEMBLY SYSTEM, AND OPERATING METHOD

Title (de)

DREHTELLER, KREISTEILTISCH, MONTAGESYSTEM UND BETRIEBSVERFAHREN

Title (fr)

PLATEAU TOURNANT, TABLE À GRADUATION CIRCULAIRE, SYSTÈME DE MONTAGE ET PROCÉDÉ D'UTILISATION

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EP 2872288 A1 20150520 (DE)

Application

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Priority

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Abstract (en)

[origin: WO2014009102A1] In order to optimize the performance of rotary fixed-cycle assembly systems, a circular indexing table is loaded with a plurality of workpieces, thus making it possible to adjust the assembly systems to variable process times for manual and mechanical operations. Since a plurality of workpieces is assembled in each segment, a plurality of mechanical operations can be performed in parallel with manual operations even in a one-stage joining process, thus significantly increasing process efficiency. Furthermore, functional flexibility is considerably increased because even in a one-stage joining process, different production units can access the rotary table simultaneously, a dedicated workpiece holder or the relative position thereof being assigned to each production unit. The rotary table therefore opens up new possibilities for combining circular indexing tables in automatic rotary cycle systems, thus satisfying the need for more flexibility in "design for flexibility" and "plug & produce" contexts. As the workpiece holders are loaded with a plurality of workpieces and a plurality of workpiece holders is arranged in each segment, production units can be used in a more flexible manner and the number of passes of the workpieces can be increased by transferring the workpieces to an adjacent workpiece holder in the same segment after each pass. Moreover, the extent and thus also the duration of manual operations can be managed in a significantly more flexible manner, making it possible to synchronize manual and mechanical operations to a high degree and render the whole process more efficient.

IPC 8 full level

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CPC (source: EP)

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See references of WO 2014009102A1

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