

Title (en)  
CIRCULAR KNITTING MACHINE STRUCTURE

Title (de)  
RUNDSTRICKMASCHINENSTRUKTUR

Title (fr)  
STRUCTURE DE MACHINE À TRICOTER CIRCULAIRE

Publication  
**EP 4286577 A1 20231206 (EN)**

Application  
**EP 22177104 A 20220602**

Priority  
EP 22177104 A 20220602

Abstract (en)  
A circular knitting machine structure (10) comprises knitting needles (11) and sinkers (12). Each knitting needle (11) is controlled to move on a first half knitting track (20) or a second half knitting track (21). A retracting time point of the first half knitting track (20) is later than that of the second half knitting track (21). One side of the sinker (12) facing the knitting needle (11) is formed with an inclined plane (121). When the knitting needle (11) is used for knitting, a surface yarn (30) and a bottom yarn (31) are fed therein. When the knitting needle (11) moves on the first half knitting track (20), a standard plating is knitted without changing the position of the surface yarn (30). When the knitting needle (11) moves on the second half knitting track (21), the surface yarn (30) leans against the inclined plane (121) of the sinker (12) transitorily, the position of the surface yarn (30) is changed relatively to the bottom yarn (31), and an interchanged plating is knitted.

IPC 8 full level  
**D04B 9/34** (2006.01); **D04B 15/06** (2006.01); **D04B 15/32** (2006.01)

CPC (source: EP)  
**D04B 9/34** (2013.01); **D04B 15/06** (2013.01); **D04B 15/32** (2013.01)

Citation (applicant)  
• US 11136698 B2 20211005 - LEE HSIN-CHUNG [TW]  
• US 9834871 B2 20171205 - LEE CHIH-CHIANG [TW]

Citation (search report)  
• [Y] US 2021017680 A1 20210121 - LEE HSIN-CHUNG [TW]  
• [Y] EP 3960920 A1 20220302 - PRECISION FUKUHARA WORKS LTD [JP]  
• [Y] TW M414428 U 201111021 - TIEN YANG KNITTING MACHINERY CO LTD [TW]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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