

Title (en)  
Flatbed knitting machine equipped with movable sinker

Title (de)  
Flachstrickmaschine mit beweglicher Platine

Title (fr)  
Métier à tricoter rectiligne équipé d'une platine mobile

Publication  
**EP 2789718 A1 20141015 (EN)**

Application  
**EP 14020048 A 20140407**

Priority  
JP 2013080597 A 20130408

Abstract (en)  
[Problem to be solved] To provide a flatbed knitting machine equipped with movable sinkers, which can prevent increase in stress amplitude of a torque spring when the sinkers are opened and closed even when the movable sinkers are controlled directly by a sinker cam mounted on a carriage. [Solution] A biasing cam surface 13a presses a leading end 12a of a torque spring 12 of which base end 12b is set to a portion between a support receive part 11a and a function arm 11b of a sinker 11 so as to bias the sinker 11 through the torque spring 12. The pressing force can be weakened in an opened state even when it is strengthened in a closed state. A stress of the torque spring 12 in the opened state also does not become larger than that in the closed state, so that an increase in the stress amplitude of the torque spring 12 is prevented when the sinker is opened and closed even with each movable sinker 10 controlled directly by the sinker cam mounted on the carriage.

IPC 8 full level  
**D04B 15/06** (2006.01); **D04B 15/36** (2006.01)

CPC (source: EP KR)  
**D04B 15/06** (2013.01 - EP KR); **D04B 15/10** (2013.01 - KR); **D04B 15/36** (2013.01 - EP); **D04B 15/362** (2013.01 - KR);  
**D04B 15/90** (2013.01 - EP)

Citation (applicant)  
• JP H0583657 B2 19931129  
• JP 2700204 B2 19980119

Citation (search report)  
• [YD] EP 0602622 A1 19940622 - SHIMA SEIKI MFG [JP]  
• [IY] DE 3917934 A1 19891214 - SCHIEBER UNIVERSAL MASCHF [DE]

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EP3054041A1

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

DOCDB simple family (publication)  
**EP 2789718 A1 20141015**; **EP 2789718 B1 20161109**; CN 104099718 A 20141015; CN 104099718 B 20160518; JP 2014201861 A 20141027;  
JP 6161375 B2 20170712; KR 101576837 B1 20151211; KR 20140121788 A 20141016

DOCDB simple family (application)  
**EP 14020048 A 20140407**; CN 201410138963 A 20140408; JP 2013080597 A 20130408; KR 20140041021 A 20140407