

Title (en)  
FLAT KNITTING MACHINE INCLUDING FIXED SINKERS

Title (de)  
FLACHSTRICKMASCHINE MIT FESTEN PLATINEN

Title (fr)  
MACHINE À TRICOTER RECTILIGNE COMPRENANT DES PLATINES FIXES

Publication  
**EP 3165649 B1 20200108 (EN)**

Application  
**EP 16197050 A 20161103**

Priority  
JP 2015218212 A 20151106

Abstract (en)  
[origin: EP3165649A1] Fixed sinkers (2) are arranged side by side at a front end portion of a needle bed (11). Each of the fixed sinkers (2) includes a body (21), which has a curved portion (24) in a middle part thereof in a longitudinal direction, and a head (22) protruding from the body (21) toward a needle-bed gap (G). In the front end portion of the needle bed (11), a needle-bed-front-end support portion (12) and a snap-fit recess (13) are formed. The needle-bed-front-end support portion (12) supports a sinker-front-end support portion (25) via a first wire (31), which extends in a direction in which the bodies (21) are arranged side by side, and allows the head (22) to swing in directions toward and away from a needle-bed gap center (Ga) around an axis (m) of the first wire (31). The snap-fit recess (13) allows a fitting portion (23) to be snap fitted thereto by using a spring force generated when the curved portion (24) of the body (21) is bent. A linear member (34) is inserted into a corner of a linear-member support portion (14) in the front end portion of the needle bed (11), and a contact portion (27) of the body (21) is pressed toward the needle-bed gap center (Ga) to swing the head (22) around the axis (m) of the first wire (31) in the direction away from the needle-bed gap center (Ga).

IPC 8 full level  
**D04B 7/04** (2006.01); **D04B 15/06** (2006.01)

CPC (source: CN EP KR)  
**D04B 7/00** (2013.01 - KR); **D04B 7/04** (2013.01 - EP); **D04B 15/06** (2013.01 - CN EP KR); **D04B 15/10** (2013.01 - CN EP KR);  
**D04B 15/24** (2013.01 - KR)

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

DOCDB simple family (publication)  
**EP 3165649 A1 20170510**; **EP 3165649 B1 20200108**; CN 106676740 A 20170517; CN 106676740 B 20181123; JP 2017089027 A 20170525;  
JP 6333229 B2 20180530; KR 101844264 B1 20180402; KR 20170053571 A 20170516

DOCDB simple family (application)  
**EP 16197050 A 20161103**; CN 201610973230 A 20161104; JP 2015218212 A 20151106; KR 20160141634 A 20161028