

Title (en)  
FLATBED KNITTING MACHINE

Title (de)  
FLACHBETTSTRICKMASCHINE

Title (fr)  
TRICOTEUSE RECTILIGNE

Publication  
**EP 3798339 A1 20210331 (EN)**

Application  
**EP 20197925 A 20200923**

Priority  
JP 2019173585 A 20190924

Abstract (en)  
An object is to provide a flatbed knitting machine capable of forming a not-too-long sinker loop in half gauge knitting, and preventing knitting yarn from being captured by a hook of an unused knitting needle. A flatbed knitting machine 1 includes basic sinkers 5 and concave sinkers 6 arranged alternately. A stitch 7 in half gauge knitting includes a needle loop 7a formed by pull-in of a hook 3a and right and left sinker loops 7b adjacent to the needle loop 7a. The left-side sinker loop 7b is formed by the concave sinker 6 followed by the basic sinker 5. The right-side sinker loop 7b is formed directly by the basic sinker 5. In the stitch 7 formed in the half gauge knitting in the conventional manner by a flatbed knitting machine 9 corresponding to all needle knitting, each of the sinker loops 7b is formed by the two basic sinkers 5 in each of the both sides of the knitting needle 3. The flatbed knitting machine 1 is capable of forming the sinker loop 7b which is not longer than the one by the flatbed knitting machine 9. Each of the concave sinkers 6 serves as a wall which closes the hook 3a of the unused knitting needle 3 so as to prevent the knitting yarn from being captured.

IPC 8 full level  
**D04B 7/20** (2006.01); **D04B 15/06** (2006.01)

CPC (source: CN EP KR)  
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**D04B 35/04** (2013.01 - KR)

Citation (search report)  
• [XY] EP 1167602 A2 20020102 - STOLL & CO H [DE]  
• [XY] EP 0897027 A2 19990217 - SHIMA SEIKI MFG [JP]  
• [A] EP 3165651 A1 20170510 - SHIMA SEIKI MFG [JP]

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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**EP 3798339 A1 20210331**; **EP 3798339 B1 20230419**; CN 112626694 A 20210409; CN 112626694 B 20220809; JP 2021050435 A 20210401;  
JP 7256722 B2 20230412; KR 102454066 B1 20221012; KR 20210035759 A 20210401

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**EP 20197925 A 20200923**; CN 202011007609 A 20200923; JP 2019173585 A 20190924; KR 20200123052 A 20200923