

Title (en)
A FLAT KNITTING MACHINE FOR INSERTION OF AN ARTICLE

Title (de)
FLACHSTRICKMASCHINE ZUM EINLEGEN EINES ARTIKELS

Title (fr)
TRICOTEUSE RECTILIGNE POUR L'INSERTION D'UN ARTICLE

Publication
EP 3901344 A1 20211027 (EN)

Application
EP 21169245 A 20210419

Priority
JP 2020076743 A 20200423

Abstract (en)
A flat knitting machine (2) is provided with an article insertion device (10) movable on a yarn feeding rail (8) and having a clamp portion (26, 38) configured to clamp an article (16, 61) and to release the article (16, 61) in order to insert the article (16, 61) into a knitted fabric. The clamp portion (26, 38) moves to avoid interference with other yarn feeders moving on the yarn feeding rails. Further, an article supply device (12, 60) supplies the article (16, 61) to the article insertion device (10). The article insertion device (10) can insert the article (16, 61) at desired positions into the knitted fabric and can avoid interference with other yarn feeders. Further, the articles (16, 61) can be supplied to the article insertion device (10).

IPC 8 full level
D04B 15/56 (2006.01); **D04B 7/14** (2006.01)

CPC (source: CN EP KR)
D04B 7/14 (2013.01 - EP); **D04B 15/48** (2013.01 - CN); **D04B 15/565** (2013.01 - EP KR); **D04B 37/02** (2013.01 - KR)

Citation (applicant)
US 7246508 B1 20070724 - LO YI-XIN [TW]

Citation (search report)
• [A] FR 623639 A 19270628
• [A] GB 745525 A 19560229 - FAHRRADWERK ELITE DIAMANT VVB

Cited by
EP4332287A1

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 3901344 A1 20211027; **EP 3901344 B1 20230816**; CN 113550058 A 20211026; CN 113550058 B 20230217; JP 2021172911 A 20211101; JP 7424901 B2 20240130; KR 102554089 B1 20230710; KR 20210131247 A 20211102

DOCDB simple family (application)
EP 21169245 A 20210419; CN 202110435217 A 20210422; JP 2020076743 A 20200423; KR 20210052198 A 20210422