

Title (en)  
FLAT KNITTING MACHINE

Title (de)  
FLACHSTRICKMASCHINE

Title (fr)  
MACHINE À TRICOTER RECTILIGNE

Publication  
**EP 2392710 B1 20141119 (EN)**

Application  
**EP 09834315 A 20091203**

Priority  
• JP 2009006579 W 20091203  
• JP 2008333398 A 20081226

Abstract (en)  
[origin: EP2392710A1] A flat knitting machine capable of suppressing a vibration of a knitting operation butt when the knitting operation butt comes into contact with a lowering inclined plane is provided. The flat knitting machine is provided with a cam system including a cam plate 100, a needle raising cam 2, a bridge cam 3, and a stitch cam 4, and is further provided with a pair of in-and-out cams 1. Each in-and-out cam 1 is configured to freely go in and out from the cam plate between a rising inclined plane 8 and a lowering inclined plane 9. The in-and-out cam 1 is in an in-state so as not to inhibit movement of the knitting operation butt 70 on a side where the knitting operation butt 70 is raised by the rising inclined plane 8, and is in an out-state so as to make an up and down vibration margin of the knitting operation butt small at a guide inclined plane 10 facing a rear end of the knitting operation butt 70 on a side where the knitting operation butt 70 is lowered by the lowering inclined plane 9.

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

CPC (source: EP KR)  
**D04B 15/32** (2013.01 - KR); **D04B 15/36** (2013.01 - EP KR)

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2392710 A1 20111207; EP 2392710 A4 20130306; EP 2392710 B1 20141119**; CN 102264966 A 20111130; CN 102264966 B 20130814; JP 5414697 B2 20140212; JP WO2010073500 A1 20120607; KR 101356444 B1 20140129; KR 20110099699 A 20110908; WO 2010073500 A1 20100701

DOCDB simple family (application)  
**EP 09834315 A 20091203**; CN 200980152638 A 20091203; JP 2009006579 W 20091203; JP 2010543792 A 20091203; KR 20117013914 A 20091203