

Title (en)  
CIRCULAR JERSEY KNITTING MACHINE FOR PLUSH FABRIC PRODUCTION

Title (de)  
TRIKOT-RUNDSTRICKMASCHINE FÜR PLÜSCHWARE

Title (fr)  
MACHINE A TRICOTER CIRCULAIRE DESTINEE A LA PRODUCTION DE JERSEY BOUCLETTE

Publication  
**EP 1692331 A2 20060823 (EN)**

Application  
**EP 04762317 A 20041014**

Priority  
• CZ 2004000065 W 20041014  
• CZ 20032801 A 20031014

Abstract (en)  
[origin: WO2005035847A2] The invention relates to a circular jersey knitting machine for production of plush fabric consisting of at least one knitting system with radially movable sinkers (8) fitted with a belly (83) for lapping the ground thread (126) and a nib (84) for lapping a plush thread (127), while these sinkers (8) are controlled by cams with radially immovable needle cams (91) and/or their parts and radially movable tensioners (92) of plush loops for tensioning the plush loops by a radial movement towards the centre of the machine and the sinkers' (8) nib (84) while drawing-out the sinker (8) towards the centre of the machine plugs into previously formed plush loops, whereas the machine further consists of knitting means, which are arranged in a cylinder and they are controlled by a cylinder cam system with a lifting and drawing-down part of a cam channel. The invention consists in that the radially immovable needle cam (91) is fitted with a part (913) for drawing-out the sinkers (8) before the tensioner (92) of plush loops, which is situated in the direction of bed (2, 3) rotation behind the point of sinking the ground thread (126) over the edge of the sinker (8) belly (83), while this part (913) is followed by a front end (921) of the tensioner (92) of plush loops and the part (913) of the radially immovable needle cam (91) is less steep than the front end (921) of the tensioner (92) of plush loops and/or the back end (927) of the tensioner (92) of plush loops slants in the direction of drawing-down the sinkers (8), which exhibits lower steepness than the steepness of the next following part (914) of the radially immovable needle cam (91) for drawing-down the sinkers (8) behind the tensioner (92) of plush loops. The invention relates also to use of this principle in cylinder cam system. The invention further relates to a thread guide (11) on the circular jersey knitting machine for plush fabric production. Further the invention relates to provision of adjustability of proper mutual position of cam channels controlling the movement of the sinkers (8) and the needles (6).

IPC 8 full level  
**D04B 15/32** (2006.01); **D04B 15/34** (2006.01); **D04B 15/58** (2006.01)

CPC (source: EP)  
**D04B 15/322** (2013.01); **D04B 15/327** (2013.01); **D04B 15/34** (2013.01); **D04B 15/58** (2013.01)

Citation (search report)  
See references of WO 2005035847A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005035847 A2 20050421**; **WO 2005035847 A3 20060706**; CN 1871388 A 20061129; CZ 20032801 A3 20050713; EP 1692331 A2 20060823; TW 200523419 A 20050716

DOCDB simple family (application)  
**CZ 2004000065 W 20041014**; CN 200480030288 A 20041014; CZ 20032801 A 20031014; EP 04762317 A 20041014; TW 93130965 A 20041013