

Title (en)

GRIPPER HEAD FOR THE INSERTION OF WEFT THREADS ON A GRIPPER WEAVING MACHINE

Title (de)

GREIFERKOPF ZUM EINTRAG VON SCHUSSFÄDEN AN EINER GREIFERWEBMASCHINE

Title (fr)

TETE DE LANCE PERMETTANT L'INSERTION DES FILS DE TRAME SUR UN METIER A TISSER A LANCES

Publication

EP 2640880 B1 20150819 (DE)

Application

EP 11758197 A 20110915

Priority

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- EP 2011066036 W 20110915

Abstract (en)

[origin: WO2012065768A2] A thread clamp (3, 103, 203) is attached to a gripper head (1, 101, 201) for the insertion of weft threads (2) on a gripper weaving machine, which thread clamp (3, 103, 203) has a stationary clamping part (4, 104, 204) and a movable clamping part (5, 105, 205). In order to open or close the thread clamp (3, 103, 203), it is connected to a hollow body (6, 106, 206) which can be expanded by compressed air. A second expandable hollow body (8, 108, 208) is compressed by means of a control device which is attached on the gripper weaving machine, in such a way that an internal pressure is built up therein. Moreover, there is a valve (9, 109, 209) on the gripper head, which valve (9, 109, 209) is configured as an automatically closing non-return valve. The valve (9, 109, 209) is opened by an increase in the internal pressure in the second expandable hollow body (8, 108, 208) or by contactless transmission of signals or forces of an actuator (13, 113, 213) which is attached on the gripper weaving machine. The inlet and outlet of the valve are connected to in each case one of the two expandable hollow bodies (6, 8, 106, 108, 206, 208) in such a way that, when the valve (9, 109, 209) opens, a pressure equalization takes place between the two hollow bodies (6, 8, 106, 108, 206, 208). As a result of this pressure compensation, the thread clamp (3, 103, 203) is opened or closed, with the result that a weft thread (2) can be received or released by the gripper head (1, 101, 201).

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