

Title (en)  
GRIPPER FOR INSERTING A WEFT THREAD INTO A GRIPPER WEAVING MACHINE

Publication  
**EP 0123005 B1 19860917 (DE)**

Application  
**EP 83810160 A 19830418**

Priority  
EP 83810160 A 19830418

Abstract (en)  
[origin: US4520851A] The taker-gripper has a longitudinally translatable clamping tongue with a clamping tongue head. The latter is pressed by a spring into a clamping hook having a first diagonally oriented or inclined clamping flank. The weft or filling thread is thereby firmly gripped and pulled through the weaving shed. The clamping hook has a further clamping flank oriented diagonally or at an inclination in reverse relation to the diagonal or inclined orientation of the first clamping flank. A correspondingly located inclined or diagonal flank of the clamping tongue head slidingly engages the further clamping flank of the clamping hook as the clamping tongue opens. As the parts of the gripper move into the open position, a pivoting motion of the clamping tongue about a pivot pin is generated by an eccentric engagement of a tension band at the clamping tongue in relation to the pivot pin. In this manner, the open position is rapidly attained and the gripped thread or yarn or the like is quickly released independently of its characteristics, e.g. thickness or texture. The projecting weft thread ends are thereby made shorter and more uniform.

IPC 1-7  
**D03D 47/23**

IPC 8 full level  
**D03D 47/23** (2006.01)

CPC (source: EP US)  
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Cited by  
DE102005014107A1; EP0394749A1; EP0233142A1; EP0235078A1; WO0005369A2; WO2006099931A1; WO0012797A1

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