

Title (en)
Coupling device

Title (de)
Kupplungsvorrichtung

Title (fr)
Dispositif d'accouplement

Publication
EP 0982420 B1 20040310 (DE)

Application
EP 99112867 A 19990703

Priority
DE 19839319 A 19980828

Abstract (en)
[origin: US6186188B1] A coupling device for the releasable connection of a lifting element, in particular of a jacquard machine, to at least one lifting element of a warp thread in a weaving machine. The preferred coupling device connects a sinker cord of a jacquard machine to a harness cord of the harness of a weaving machine. The coupling device has a first coupling part assigned to the lifting element and a second coupling part assigned to the harness cord. The coupling parts execute a radial relative movement during coupling and uncoupling. The coupling device provides for rotational alignment of the two coupling parts with one another. At least one coupling part is assigned or capable of being assigned a rotational alignment mechanism. The coupling device is used in a system which rapidly connects and disconnects many connectors at the same time. The system includes a positioning mechanism for vertically moving two positioning elements which operate the coupling devices between standby and operative positions, and for horizontally moving at least one of the positioning elements to cause the coupling parts of each coupling device to interlock and disengage. The positioning elements also cooperate with portions of at least one of the coupling parts to rotationally align the coupling parts so they may interlock.

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D03C 3/40; **D03C 3/38**

IPC 8 full level
D03C 3/38 (2006.01); **D03C 3/40** (2006.01)

CPC (source: EP US)
D03C 3/38 (2013.01 - EP US); **D03C 3/40** (2013.01 - EP US); **Y10T 24/45995** (2015.01 - EP US)

Cited by
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EP 0982420 A1 20000301; **EP 0982420 B1 20040310**; AT E261505 T1 20040315; BR 9903972 A 20000919; BR 9903972 B1 20100518; DE 19839319 A1 20000302; DE 19839319 C2 20010517; DE 59908798 D1 20040415; ES 2216382 T3 20041016; PT 982420 E 20040831; TR 199901846 A2 20000421; TR 199901846 A3 20000421; US 6186188 B1 20010213

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