

Title (en)

Selection device, three-position shedding mechanism and loom with such a mechanism

Title (de)

Auswahlvorrichtung, Dreipositions- Fachbildungsmechanismus und Webmaschine mit einem solchen Fachbildungsmechanismus

Title (fr)

Dispositif de sélection, mécanique d'armure à trois positions et métier à tisser équipé d'une telle mécanique d'armure

Publication

EP 0899367 A1 19990303 (FR)

Application

EP 98420147 A 19980828

Priority

FR 9711031 A 19970901

Abstract (en)

The device for mechanical selection of the harness for the weaving pattern in a loom, with three positions, has an assembly of two electromagnets (8,9) for energized selection. There is at least one pair of swing levers (10,11,10',11') at the same side as the electromagnets, each with a magnetic fitting (15,16,15',16') to work selectively with the electromagnets. Each lever has a projection (30,31,30'.31') to immobilize a hook (1,2,1',2') of a pair of hooks to be shifted together with a griffe (3). The lever projections (30,31,30'.31') are positioned to act with the hooks (1,2,1',2'). The levers swing on axes (12,13,12',13') in a central zone (C) near the electromagnets (8,9). One lever (10), on a swing axis (12), has the electromagnetic fittings (15,15') on one leg (10a) and the projection (30) is at the other leg (10b) of the lever (10). A second lever (11) has movement in only one direction on its swing axis (13). The gap (d) between the projections (30,31) of the two levers is larger than when one of the electromagnets is energized than when one of them is not energized. Return springs (20,21,20',21') act on the levers (10,11,10',11') to bring their projections together. Each of the hooks has an opening (1a,2a,1a',2a') to take the lever projections facing each other.

Abstract (fr)

Dispositif de sélection de mécanique d'armure à trois positions comportant deux électro-aimants (8, 9) superposés aptes à être sélectivement activés, caractérisé en ce qu'il comprend au moins une paire de leviers pivotants (10, 11, 10', 11') disposés d'un même côté desdits électro-aimants et pourvus chacun d'une armature magnétique (15, 16, 15', 16') apte à coopérer sélectivement avec l'un desdits électro-aimants, chaque levier étant pourvu d'un bec (30, 31, 30', 31') d'immobilisation d'un crochet (1, 2, 1', 2') appartenant à une paire de crochets aptes à être déplacés conjointement par un couteau (3). <IMAGE>

IPC 1-7

D03C 3/20; D03C 3/12

IPC 8 full level

D03C 3/12 (2006.01); **D03C 3/20** (2006.01)

CPC (source: EP US)

D03C 3/12 (2013.01 - EP US); **D03C 3/20** (2013.01 - EP US)

Citation (search report)

- [AD] EP 0723041 A1 19960724 - WIELE MICHEL VAN DE NV [BE]
- [A] EP 0107099 A1 19840502 - TEXTILMA AG [CH]
- [PA] FR 2756574 A1 19980605 - STAUBLI LYON [FR]

Cited by

EP11111107A1; BE1013193A3; EP1619279A1; US6336478B2; EP4015686A1; FR3118069A1; EP4015687A1; FR3118070A1; US11702771B2

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