

CPC**COOPERATIVE PATENT CLASSIFICATION****D03C****SHEDDING MECHANISMS; PATTERN CARDS OR CHAINS;
PUNCHING OF CARDS; DESIGNING PATTERNS****WARNING**

The following IPC groups are not used in the CPC scheme.
Subject-matter covered by these groups is classified in the
following CPC groups: - [D03C 9/04](#) covered by [D03C 9/028](#)

D03C 1/00**Dobbies****D03C 1/005**

- . { [Electronic dobbies](#) }

WARNING

Not complete pending the completion of a reclassification, see also group
[D03C 1/00](#)

D03C 1/02

- . Single-lift dobbies, i.e. dobbies in which the same draw-knife or equivalent operates for every pick ([D03C 1/10 takes precedence](#))

D03C 1/04

- .. Open-shed single-lift dobbies

D03C 1/06

- . Double-lift dobbies, i.e. dobbies in which separate draw-knives or equivalent operate on alternate picks

D03C 1/08

- .. reversible, i.e. correct sheds open automatically when the loom is driven backwards

D03C 1/10

- . Centre-shed dobbies, i.e. shed formed by lifting some threads and lowering the others from central shed-closed position

D03C 1/12

- . Dobbies employing toothed gearing instead of draw-knives

D03C 1/14

- . Features common to dobbies of different types ([stop motions acting on defective operation of shedding mechanisms D03D 51/46](#))

D03C 1/142

- .. { [Leveling mechanisms](#) }

WARNING

Not complete pending the completion of a reclassification, see also group
[D03C 1/14](#)

D03C 1/144

- .. { [linking to the heald frame](#) }

WARNING

Not complete pending the completion of a reclassification, see also group [D03C 1/14](#)

[D03C 1/146](#) .. { Independent drive motor }

WARNING

Not complete pending the completion of a reclassification, see also group [D03C 1/14](#)

[D03C 1/148](#) .. { Eccentrics }

WARNING

Not complete pending the completion of a reclassification, see also groups [D03C 1/00](#) and [D03C 1/14](#)

- [D03C 1/16](#) .. Arrangements of dobby in relation to loom
- [D03C 1/18](#) .. Knives; Knife frames
- [D03C 1/20](#) .. Hooks; Lifters
- [D03C 1/22](#) .. Needles; Needle boxes; Needle boards
- [D03C 1/24](#) .. Cylinders; Cylinder battens
- [D03C 1/26](#) .. Facilitating engagement of lifting-hooks with draw-knives
- [D03C 1/28](#) ... by creating and then eliminating back-lash between hooks and knives
- [D03C 1/30](#) ... wherein all the hooks are disengaged from the knives, and selected hooks then re-engaged
- [D03C 1/32](#) ... wherein all the hooks are engaged with the knives, and unselected hooks then disengaged
- [D03C 1/34](#) .. Arrangements wherein warp threads pass one another at different heights to avoid congestion
- [D03C 1/36](#) .. Card- or chain-saving arrangements, e.g. cross-border dobbies

[D03C 3/00](#) **Jacquards** (controlling jacquard by scanning design [D03C 17/06](#) ; for gripper Axminster looms [D03D 39/08](#))

- [D03C 3/02](#) . Single-lift jacquards
- [D03C 3/04](#) .. of open-shed type
- [D03C 3/06](#) . Double-lift jacquards
- [D03C 3/08](#) .. of open-shed type
- [D03C 3/10](#) . Centre-shed jacquards
- [D03C 3/12](#) . Multiple-shed jacquards, i.e. jacquards which move warp threads to several different heights, e.g. for weaving pile fabrics
- [D03C 3/14](#) . Jacquards not employing lifting-hooks, e.g. employing knotted cords in conjunction with keyhole slots

D03C 3/16 . Verdol or other jacquards having intermediate power-operated needles between reading needles and lifting-hooks

D03C 3/18 . Selvage jacquards

D03C 3/20 . Electrically-operated jacquards

D03C 3/205 .. { [Independently actuated lifting cords](#) }

WARNING

[Not complete pending the completion of a reclassification, see also group D03C 3/20](#)

D03C 3/22 . Fluid-operated jacquards

D03C 3/24 . Features common to jacquards of different types

D03C 3/26 .. General arrangements of jacquards, or disposition in relation to loom

D03C 3/28 .. Pick-finding arrangements; Arrangements for preventing next shed from being opened during stopping of loom

D03C 3/30 .. Arrangement wherein hooks are positively operated to close shed

D03C 3/32 .. Jacquard driving mechanisms

D03C 3/34 ... Cylinder operating mechanisms

D03C 3/36 ... Griffe operating mechanisms

D03C 3/38 .. Comber boards

D03C 3/40 .. Constructions of lifting-cords

D03C 3/42 .. Arrangements of lifting-cords

D03C 3/44 .. Lingoies

D03C 5/00 Cam or other direct-acting shedding mechanisms, i.e. operating heald frames without intervening power-supplying devices

D03C 5/005 . { [Leveling mechanisms](#) }

WARNING

[Not complete pending the completion of a reclassification, see also groups D03C 5/00 and D03C 5/02](#)

D03C 5/02 . operated by rotating cams

D03C 5/04 .. Construction or shape of cams ([cams in general F16H 53/00](#))

D03C 5/06 . operated by cam devices other than rotating cams

D03C 7/00 Leno or similar shedding mechanisms

- D03C 7/005 . { Combined leno and patterned shedding motion }

WARNING

Not complete, classification to this group is a continuous process

- D03C 7/02 . Gauze healds

- D03C 7/04 . Mechanisms having discs oscillating about a weftwise axis and having apertures for warp threads

- D03C 7/06 . Mechanisms having eyed needles for moving warp threads from side to side of other warp threads

- D03C 7/08 . Devices for twisting warp threads repeatedly in the same direction

D03C 9/00 Healds; Heald frames (for leno shedding [D03C 7/00](#))

- D03C 9/02 . Healds

- D03C 9/022 .. { anti-buckling }

WARNING

Not complete pending the completion of a reclassification, see also group [D03C 9/02](#)

- D03C 9/024 .. { Eyelets }

WARNING

Not complete pending the completion of a reclassification, see also group [D03C 9/02](#)

- D03C 9/026 .. { Material used }

WARNING

Not complete pending the completion of a reclassification, see also group [D03C 1/14](#)

- D03C 9/028 ... { Metal }

- D03C 2009/04 .. { Metal healds }

- D03C 9/06 . Heald frames

- D03C 9/0608 .. { Construction of frame parts }

- D03C 9/0616 ... { Horizontal upper or lower rods }

- D03C 9/0625 { Composition or used material }

- D03C 9/0633 { Heald bars or their connection to other frame parts }

- D03C 9/0641 { Distance guides for keeping distance to the next frame }
 - D03C 9/065 . . . { Side stays }
 - D03C 9/0658 . . . { Intermediate supports or their connection to other frame parts }
 - D03C 9/0666 . . { Connection of frame parts ([D03C 9/0633](#) and [D03C 9/0658](#) take precedence)}
 - D03C 9/0675 . . . { Corner connections between horizontal rods and side stays }
 - D03C 9/0683 . . { Arrangements or means for the linking to the drive system }
 - D03C 9/0691 . . { Arrangements of means for damping or noise reduction }
- D03C 11/00** **Selvedge shedding mechanisms not forming part of main shedding mechanism (selvedge jacquards [D03C 3/18](#) ; leno selvedge mechanism [D03C 7/00](#))**
- D03C 13/00** **Shedding mechanisms not otherwise provided for**
- D03C 13/02 . { with independent drive motors ([D03C 1/146](#) and [D03C 3/205](#) take precedence)}
- WARNING**
- Not complete pending the completion of a reclassification, see also groups [D03C 5/00](#) and [D03C 13/00](#)
- D03C 13/025 . . { with independent frame drives }
- WARNING**
- Not complete pending the completion of a reclassification, see also groups [D03C 5/00](#) and [D03C 13/00](#)
- D03C 15/00** **Pattern cards or chains**
- D03C 15/02 . Chains of metal, wood, or similar material with projecting pattern-indicating elements
 - D03C 15/04 . Cards or paper perforated to indicate pattern
 - D03C 15/06 . Apparatus for setting pegs in, or removing pegs from, pattern cards
 - D03C 15/08 . Apparatus for interconnecting, e.g. by lacing, or disconnecting pattern cards
- D03C 17/00** **Card-punching apparatus (marking record carriers in digital fashion [G06K](#))**
- D03C 17/02 . manually-controlled, i.e. holes to be punched determined by the operator
 - D03C 17/04 . . power-operated
 - D03C 17/06 . automatic, i.e. design scanned optically or otherwise to control punching apparatus or to control loom jacquard directly

D03C 19/00 Miscellaneous methods or devices concerned with designing or making patterns

D03C 19/005 . { Electronic }

D03C 2700/00 Shedding mechanisms

- Shedding mechanisms using heald frames

D03C 2700/0105 .. Cam-driven heald frame movement

D03C 2700/0111	...	Devices for levelling the heald frames; Coupling and uncoupling the drive for the heald frames; Devices for holding the shed open
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D03C 2700/0116 ... Arrangements in which warp threads pass one another at different heights

D03C 2700/0122 . . . Devices for adjusting the geometric and time parameters of shed opening

D03C 2700/0127 .. Programme-controlled head frame movement

D03C 2700/0133 ... with mechanical transmission

D03C 2700/0138 using hooks or lifters

D03C 2700/0144 Single-lift mechanisms

D03C 2700/015 of closed-shed type

D03C 2700/0155 Double-lift mechanisms

D03C 2700/0161 of negatively-driven type

D03C 2700/0166 of positively-driven type

D03C 2700/0172 Constructional details

D03C 2700/0177	...	Devices for levelling the heald frames; Coupling and uncoupling the drive for the heald frames; Devices for holding the shed open
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D03C 2700/0183 ... Devices for adjusting the geometric and time parameters of shed opening

D03C 2700/0188 .. Heald frame return devices

D03C 2700/0194 .. Frame-operating devices for ribbon looms

D03C 2700/14 .. Heald frame lifting devices