

**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**

- D03C 2700/01                      .    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
- 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 heald 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
- 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