

**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 . . Lingoos

**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 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 2009/00**      **Healds ; Heald frames ( for leno shedding [D03C 7/00](#) )**

- D03C 2009/02      .    Healds
- D03C 2009/04      . .    Metal healds

**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