

# 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](#)

<b>1/00</b>	<b>Dobbies</b>	3/14	• Jacquards not employing lifting-hooks, e.g. employing knotted cords in conjunction with keyhole slots
1/005	• { <a href="#">Electronic dobbies</a> }	3/16	• Verdol or other jacquards having intermediate power-operated needles between reading needles and lifting-hooks
1/02	• Single-lift dobbies, i.e. dobbies in which the same draw-knife or equivalent operates for every pick ( <a href="#">D03C 1/10 takes precedence</a> )	3/18	• Selvedge jacquards
1/04	• . Open-shed single-lift dobbies	3/20	• Electrically-operated jacquards
1/06	• Double-lift dobbies, i.e. dobbies in which separate draw-knives or equivalent operate on alternate picks	3/205	• . { <a href="#">Independently actuated lifting cords</a> }
1/08	• . reversible, i.e. correct sheds open automatically when the loom is driven backwards	3/22	• Fluid-operated jacquards
1/10	• Centre-shed dobbies, i.e. shed formed by lifting some threads and lowering the others from central shed-closed position	3/24	• Features common to jacquards of different types
1/12	• Dobbies employing toothed gearing instead of draw-knives	3/26	• . General arrangements of jacquards, or disposition in relation to loom
1/14	• Features common to dobbies of different types ( <a href="#">stop motions acting on defective operation of shedding mechanisms D03D 51/46</a> )	3/28	• . Pick-finding arrangements; Arrangements for preventing next shed from being opened during stopping of loom
1/142	• . { <a href="#">Leveling mechanisms</a> }	3/30	• . Arrangement wherein hooks are positively operated to close shed
1/144	• . { <a href="#">linking to the heald frame</a> }	3/32	• . Jacquard driving mechanisms
1/146	• . { <a href="#">Independent drive motor</a> }	3/34	• . . Cylinder operating mechanisms
1/148	• . { <a href="#">Eccentrics</a> }	3/36	• . . Griffe operating mechanisms
1/16	• . Arrangements of dobby in relation to loom	3/38	• . Comber boards
1/18	• . Knives; Knife frames	3/40	• . Constructions of lifting-cords
1/20	• . Hooks; Lifters	3/42	• . Arrangements of lifting-cords
1/22	• . Needles; Needle boxes; Needle boards	3/44	• . Lingoies
1/24	• . Cylinders; Cylinder battens	<b>5/00</b>	<b>Cam or other direct-acting shedding mechanisms, i.e. operating heald frames without intervening power-supplying devices</b>
1/26	• . Facilitating engagement of lifting-hooks with draw-knives	5/005	• { <a href="#">Leveling mechanisms</a> }
1/28	• . . by creating and then eliminating back-lash between hooks and knives	5/02	• operated by rotating cams
1/30	• . . wherein all the hooks are disengaged from the knives, and selected hooks then re-engaged	5/04	• . Construction or shape of cams ( <a href="#">cams in general F16H 53/00</a> )
1/32	• . . wherein all the hooks are engaged with the knives, and unselected hooks then disengaged	5/06	• operated by cam devices other than rotating cams
1/34	• . Arrangements wherein warp threads pass one another at different heights to avoid congestion	<b>7/00</b>	<b>Leno or similar shedding mechanisms</b>
1/36	• . Card- or chain-saving arrangements, e.g. cross-border dobbies	7/005	• { <a href="#">Combined leno and patterned shedding motion</a> }
<b>3/00</b>	<b>Jacquards</b> ( <a href="#">controlling jacquard by scanning design D03C 17/06</a> ; for gripper Axminster looms <a href="#">D03D 39/08</a> )	7/02	• Gauze healds
3/02	• Single-lift jacquards	7/04	• Mechanisms having discs oscillating about a weftwise axis and having apertures for warp threads
3/04	• . of open-shed type	7/06	• Mechanisms having eyed needles for moving warp threads from side to side of other warp threads
3/06	• Double-lift jacquards	7/08	• Devices for twisting warp threads repeatedly in the same direction
3/08	• . of open-shed type	<b>9/00</b>	<b>Healds; Heald frames</b> ( <a href="#">for leno shedding D03C 7/00</a> )
3/10	• Centre-shed jacquards	9/02	• Healds
3/12	• Multiple-shed jacquards, i.e. jacquards which move warp threads to several different heights, e.g. for weaving pile fabrics	9/022	• . { <a href="#">anti-buckling</a> }
		9/024	• . { <a href="#">Eyelets</a> }
		9/026	• . { <a href="#">Material used</a> }
		9/028	• . . { <a href="#">Metal</a> }

- 2009/04 . . {Metal healds}
- 9/06 . Heald frames
- 9/0608 . . {Construction of frame parts}
- 9/0616 . . . {Horizontal upper or lower rods}
- 9/0625 . . . . {Composition or used material}
- 9/0633 . . . . {Heald bars or their connection to other frame parts}
- 9/0641 . . . . {Distance guides for keeping distance to the next frame}
- 9/065 . . . {Side stays}
- 9/0658 . . . {Intermediate supports or their connection to other frame parts}
- 9/0666 . . {Connection of frame parts ([D03C 9/0633](#) and [D03C 9/0658](#) take precedence)}
- 9/0675 . . . {Corner connections between horizontal rods and side stays}
- 9/0683 . . {Arrangements or means for the linking to the drive system}
- 9/0691 . . {Arrangements of means for damping or noise reduction}
- 11/00 Selvedge shedding mechanisms not forming part of main shedding mechanism** ([selvedge jacquards D03C 3/18](#); [leno selvedge mechanism D03C 7/00](#))
- 13/00 Shedding mechanisms not otherwise provided for**
- 13/02 . {with independent drive motors ([D03C 1/146](#) and [D03C 3/205](#) take precedence)}
- 13/025 . . {with independent frame drives}
- 15/00 Pattern cards or chains**
- 15/02 . Chains of metal, wood, or similar material with projecting pattern-indicating elements
- 15/04 . Cards or paper perforated to indicate pattern
- 15/06 . Apparatus for setting pegs in, or removing pegs from, pattern cards
- 15/08 . Apparatus for interconnecting, e.g. by lacing, or disconnecting pattern cards
- 17/00 Card-punching apparatus** ([marking record carriers in digital fashion G06K](#))
- 17/02 . manually-controlled, i.e. holes to be punched determined by the operator
- 17/04 . . power-operated
- 17/06 . automatic, i.e. design scanned optically or otherwise to control punching apparatus or to control loom jacquard directly
- 19/00 Miscellaneous methods or devices concerned with designing or making patterns**
- 19/005 . {Electronic}
- 2700/00 Shedding mechanisms**
- 2700/01 . Shedding mechanisms using heald frames
- 2700/0105 . . Cam-driven heald frame movement
- 2700/0111 . . . Devices for levelling the heald frames; Coupling and uncoupling the drive for the heald frames; Devices for holding the shed open
- 2700/0116 . . . Arrangements in which warp threads pass one another at different heights
- 2700/0122 . . . Devices for adjusting the geometric and time parameters of shed opening
- 2700/0127 . . Programme-controlled heald frame movement
- 2700/0133 . . . with mechanical transmission
- 2700/0138 . . . . using hooks or lifters
- 2700/0144 . . . . . Single-lift mechanisms
- 2700/015 . . . . . of closed-shed type
- 2700/0155 . . . . . Double-lift mechanisms
- 2700/0161 . . . . . of negatively-driven type
- 2700/0166 . . . . . of positively-driven type
- 2700/0172 . . . . . Constructional details
- 2700/0177 . . . Devices for levelling the heald frames; Coupling and uncoupling the drive for the heald frames; Devices for holding the shed open
- 2700/0183 . . . Devices for adjusting the geometric and time parameters of shed opening
- 2700/0188 . . Heald frame return devices
- 2700/0194 . . Frame-operating devices for ribbon looms
- 2700/14 . . Heald frame lifting devices