Weft knitting: Machines therefor

1/00 Weft knitting processes for the production of fabrics or articles not dependent on the use of particular machines; Fabrics or articles defined by such processes
1/02 . Pile fabrics or articles having similar surface features
1/025 . [incorporating loose fibres, e.g. high-pile fabrics or artificial fur]
1/04 . characterised by thread material
1/06 . Non-run fabrics or articles
1/08 . characterised by thread material
1/10 . Patterned fabrics or articles
1/102 . [with stitch pattern (D04B 1/06, D04B 1/08 take precedence)]
1/104 . [Openwork fabric, e.g. pelerine fabrics]
1/106 . [at a selvedge, e.g. hems or turned welts]
1/108 . [Gussets, e.g. pouches or heel or toe portions]
1/12 . characterised by thread material
1/123 . [with laid-in unlooped yarn, e.g. fleece fabrics (with elastic weft yarn D04B 1/18)]
1/126 . [with colour pattern, e.g. intarsia fabrics]
1/14 . Other fabrics or articles characterised primarily by the use of particular thread materials
1/16 . synthetic threads
1/18 . elastic threads
1/20 . crimped threads
1/22 . specially adapted for knitting goods of particular configuration
1/225 . [Elongated tubular articles of small diameter, e.g. coverings or reinforcements for cables or hoses]
1/24 . wearing apparel
1/243 . [upper parts of panties; pants]
1/246 . [Upper torso garments, e.g. sweaters, shirts, leotards]
1/26 . stockings

1/265 . . . (Surgical stockings (of unspecified knit construction and reinforced A41B 11/02; of unspecified knit construction and elastic A61F 13/08))
1/28 . . . gloves
3/00 Hand tools or implements
3/02 . Needles
3/04 . Finger protectors; Thread tensioners
3/06 . Ball holders or receptacles
5/00 Knitting apparatus or machines without needles for domestic use (with needles D04B 7/08)
7/00 Flat-bed knitting machines with independently-movable needles (straight-bar machines with fixed needles D04B 11/00)
7/02 . with one set of needles
7/025 . . (with stitch-length regulation (cam systems for stitch-length regulation D04B 15/327))
7/04 . with two sets of needles
7/045 . . (with stitch-length regulation (cam systems for stitch-length regulation D04B 15/327))
7/06 . . for purl work or Links-Links loop formation
7/08 . for domestic use
7/10 . with provision for narrowing or widening to produce fully-fashioned goods
7/12 . with provision for incorporating pile threads
7/14 . with provision for incorporating internal threads in laid-in fabrics
7/16 . . for producing fabrics consisting of, or incorporating, elastic threads
7/18 . . incorporated as weft or inlaid threads
7/20 . with provision for changing the fabric construction, e.g. from plain to rib-loop fabric
7/22 . with special provision for commencing goods, e.g. with non-run edges
7/24 . . for producing patterned fabrics
7/26 . . with colour patterns
7/28 . . with stitch patterns
Weft knitting; Machines therefor

9/00 Circular knitting machines with independently-movable needles (with fixed spring or bearded needles D04B 13/00)

9/02 . with one set of needles
9/025 . [with stitch-length regulation (cam systems for stitch-length regulation D04B 15/327)]
9/04 . with spring or bearded needles
9/06 . with needle cylinder and dial for ribbed goods
9/065 . [with stitch-length regulation (cam systems for stitch-length regulation D04B 15/327)]
9/08 . for interlock goods
9/10 . with two needle cylinders for purl work or for Links-Links loop formation
9/12 . with provision for incorporating pile threads
9/14 . with provision for incorporating loose fibres, e.g. in high-pile fabrics
9/16 . with provision for incorporating internal threads in laid-in fabrics
9/18 . with provision for splicing by incorporating reinforcing threads
9/20 . with provision for narrowing or widening; with reciprocatory action, e.g. for knitting of flat portions
9/22 . with provision for changing the fabric construction, e.g. from plain to rib-loop fabric
9/24 . with special provision for commencing goods, e.g. with non-run edges
9/26 . for producing patterned fabrics
9/28 . with colour patterns
9/30 . by striping
9/32 . by wrap striping
9/34 . by plating
9/36 . Intarsia work obtained by reciprocatory action
9/38 . with stitch patterns
9/40 . with provision for transfer of knitted goods from one machine to another
9/42 . specially adapted for producing goods of particular configuration
9/44 . elongated tubular articles of small diameter, e.g. coverings for cables (sheathing electric cables H01B 13/22)
9/46 . stockings, or portions thereof
9/48 . non-run stockings
9/50 . micromesh stockings
9/52 . surgical stockings
9/54 . wets, e.g. double or turned wets
9/56 . heel or toe portions
9/58 . gloves

11/00 Straight-bar knitting machines with fixed needles (flat-bed machines with independently-movable needles D04B 7/00)

11/02 . with one set of needles
11/025 . [with stitch-length-regulating mechanism]
11/04 . with two sets of needles
11/06 . with provision for narrowing or widening to produce fully-fashioned goods
11/08 . with provision for incorporating pile threads
11/10 . with provision for incorporating internal threads in laid-in fabrics
11/12 . for producing fabrics from, or incorporating, elastic threads
11/14 . with provision for changing the fabric construction, e.g. from plain to rib-loop fabric
11/16 . with special provision for commencing goods, e.g. with non-run edges
11/18 . for producing patterned fabrics
11/20 . with colour patterns
11/22 . with stitch patterns
11/24 . with provision for transfer of knitted goods from one machine to another
11/26 . specially adapted for producing goods of particular configuration
11/28 . stockings, or portions thereof
11/30 . non-run stockings
11/32 . wets, e.g. double or turned wets
11/34 . heel or toe portions
11/36 . other wearing apparel

13/00 Circular knitting machines with fixed spring or bearded needles, e.g. loop-wheel machines (with independently-movable needles D04B 9/00)

13/02 . with horizontal needles

15/00 Details of, or auxiliary devices incorporated in, weft knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 35/00)

15/02 . Loop-transfer points
15/04 . for straight-bar knitting machines
15/06 . Sinkers
15/08 . Needle latch openers; Brushes
15/10 . Needle beds
15/12 . Shogging devices therefor
15/14 . Needle cylinders
15/16 . Driving devices for reciprocatory action
15/18 . Dials
15/20 . Needle bars
15/22 . Driving devices therefor
15/24 . Sinker heads; Sinker bars
15/26 . Slurcocks
15/28 . Needle pressers
15/30 . Driving devices for thread-carrier rods
15/32 . Cam systems or assemblies for operating knitting instruments
15/322 . [in circular knitting machines with needle cylinder and dial (cam systems specially provided for dials D04B 15/34)]
15/325 . [in circular knitting machines with two opposed needle cylinders]
15/327 . [for stitch-length regulation]
15/34 . for dials
15/36 . for flat-bed knitting machines
15/362 . [with two needle beds in V-formation]
15/365 . . . [with provision for loop transfer from one needle bed to the other]
15/367 . . . [with two opposed needle beds]
15/38 . Devices for supplying, feeding, or guiding threads to needles
15/40 . Holders or supports for thread packages
15/42 . Frames for assemblies of two or more reels
15/44 . Tensioning devices for individual threads
15/46 . . . for elastic threads
15/48 . . . Thread-feeding devices
Weft knitting: Machines therefor

15/482 . . . [comprising a rotatable or stationary intermediate storage drum from which the thread is axially and intermittently pulled off; Devices which can be switched between positive feed and intermittent feed]
15/484 . . . [Yarn braking means acting on the drum]
15/486 . . . [Monitoring reserve quantity]
15/488 . . . [in co-operation with stitch-length-regulating mechanism]
15/50 . . . for elastic threads
15/52 . . . for straight-bar knitting machines
15/54 . . . Thread guides
15/56 . . . for flat-bed knitting machines
15/565 . . . [Associated thread-clamping or thread-severing devices]
15/58 . . . for circular knitting machines; Thread-changing devices
15/60 . . . with thread-clamping or -severing devices
15/61 . . . arranged within needle circle
15/62 . . . with thread knotters
15/64 . . . for straight-bar knitting machines
15/66 . . . Devices for determining or controlling patterns [Programme-control arrangements]
15/665 . . . [Driving-gear for programme or pattern devices]
15/68 . . . characterised by the knitting instruments used
15/70 . . . in flat-bed knitting machines
15/72 . . . in straight-bar knitting machines
15/74 . . . Pattern drums ([driving-gear therefor D04B 15/665])
15/76 . . . Pattern wheels
15/78 . . . Electrical devices
15/80 . . . characterised by the thread guides used
15/82 . . . characterised by the needlecams used
15/84 . . . Jacquard cards or mechanisms (stamping apparatus therefor D03C)
15/86 . . . in flat-bed knitting machines
15/88 . . . Take-up or draw-off devices for knitting products
15/885 . . . [for straight-bar knitting machines]
15/90 . . . for flat-bed knitting machines
15/92 . . . pneumatic
15/94 . . . Driving-gear not otherwise provided for
15/96 . . . in flat-bed knitting machines
15/98 . . . in straight-bar knitting machines
15/99 . . . electrically controlled

Repairing or unravelling knitted fabrics

17/00 Repairing knitted fabrics by knitting operations
17/02 . by darning
17/04 . by picking-up dropped stitches
19/00 Unravelling knitted fabrics

Warp knitting: Machines therefor

21/00 Warp knitting processes for the production of fabrics or articles not dependent on the use of particular machines; Fabrics or articles defined by such processes
21/02 . . . Pile fabrics or articles having similar surface features
21/04 . . . characterised by thread material
21/06 . . . Patterned fabrics or articles (open-work fabrics D04B 21/10)
21/08 . . . characterised by thread material
21/10 . . . Open-work fabrics
21/12 . . . characterised by thread material
21/14 . . . Fabrics characterised by the incorporation by knitting, in one or more thread, fleece, or fabric layers, of reinforcing, binding, or decorative threads; Fabrics incorporating small auxiliary elements, e.g. for decorative purposes (pile fabrics D04B 21/02: non-woven fabrics in general D04H)
21/145 . . . [with stitches drawn from loose fibres, e.g. web-knitted fabrics]
21/165 . . . [with yarns stitched through one or more layers or tows, e.g. stitch-bonded fabrics (layered products not united by stitch loops B32B 5/22)]
21/185 . . . incorporating elastic threads
21/205 . . . specially adapted for knitting articles of particular configuration
21/207 . . . Warp knitted yarns
21/205 . . . [Elongated tubular articles of small diameter, e.g. coverings or reinforcements for cables or hoses]
21/207 . . . [Wearing apparel or garment blanks]

23/00 Flat warp knitting machines
23/02 . . . with two sets of needles
23/04 . . . with independently-movable knitting needles
23/06 . . . for producing fabrics consisting of, or incorporating, elastic threads
23/08 . . . with provision for incorporating pile threads
23/10 . . . for knitting through thread, fleece, or fabric layers, or around elongated core material
23/12 . . . with provision for incorporating unlooped wefts extending from selvedge to selvedge
23/14 . . . with provision for incorporating small auxiliary elements, e.g. for decorative purposes
23/16 . . . specially adapted for producing fabrics, or article blanks, of particular form or configuration
23/18 . . . with provision for narrowing or widening
23/20 . . . for producing stocking blanks
23/22 . . . with special thread-guiding means
23/24 . . . with cut needle presser arrangements to produce patterns

25/00 Warp knitting machines not otherwise provided for
25/02 . . . Tubular machines
25/04 . . . Milanese machines
25/06 . . . Galloon crocheting machines
25/08 . . . for producing pile fabrics
25/10 . . . for producing patterned fabrics
25/12 . . . with independently-movable weft-thread guides controlled by Jacquard mechanisms
25/14 . . . specially adapted for producing articles of particular configuration

27/00 Details of, or auxiliary devices incorporated in, warp knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 25/00)
27/02 . . . Warp-thread guides
27/04 . . . Sinkers
27/06 . . . Needle bars; Sinker bars
27/08 . . . Driving devices therefor
Warp knitting; Machines therefor

27/10 . Devices for supplying, feeding, or guiding threads to needles
27/12 . Tensioning devices for individual threads
27/14 . Thread tensioning rod arrangements
27/16 . Warp beams; Bearings therefor
27/18 . Warp beam braking devices for thread tensioning
27/20 . Warp beam driving devices
27/22 . . . electrically controlled
27/24 . . Thread guide bar assemblies
27/26 . . . Shogging devices therefor
27/28 . . . . with arrangements to reduce the number of members of pattern chains
27/30 . . . . with driving-gear comprising force-multiplication devices
27/32 . . . . with independently-movable thread guides controlled by Jacquard mechanisms
27/34 . Take-up or draw-off devices for knitted products
27/36 . . . with temples

Crocheting; Apparatus therefor (galloon crocheting machines for warp knitting D04B 25/06)

31/00 Crocheting processes for the production of fabrics or articles
31/02 . Crocheted strips or threads

33/00 Crocheting tools or apparatus

35/00 Details of, or auxiliary devices incorporated in, knitting machines, not otherwise provided for
35/02 . Knitting tools or instruments not provided for in group D04B 15/00 or D04B 27/00 (needle manufacture B21G 1/00)
35/04 . . Latch needles
35/06 . . Sliding-tongue needles
35/08 . . Spring or bearded needles
35/10 . . Indicating, warning, or safety devices, e.g. stop motions
35/12 . . responsive to thread consumption
35/14 . . responsive to thread breakage
35/16 . . . with detectors associated with a series of threads
35/18 . . responsive to breakage, misplacement, or malfunctioning of knitting instruments
35/20 . . responsive to defects, e.g. holes, in knitted products
35/22 . Devices for preparatory treatment of threads
35/24 . . by moistening or lubricating
35/26 . . by heating
35/28 . Devices for lubricating machine parts (in general F16N)
35/30 . Devices for controlling temperature of machine parts
35/32 . Devices for removing lint or fluff
35/34 . Devices for cutting knitted fabrics
35/36 . Devices for printing, coating, or napping knitted fabrics

37/00 Auxiliary apparatus or devices for use with knitting machines (Jacquard cards, pattern chains, apparatus for punching same D03C)
37/02 . with weft knitting machines
37/04 . . for inserting or adjusting pattern pins or like elements in pattern drums or wheels

Miscellaneous knitting processes, apparatus, or machines, not otherwise provided for

39/00 . with warp knitting machines
39/02 . with work carrier in screw form
39/04 . adapted for combined weft and warp knitting
39/06 . adapted for combined knitting and weaving
39/08 . Sewing machines modified for knitting