CPC COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D04 BRAIDING; LACE-MAKING; KNITTING; TRIMMINGS; NON-WOVEN FABRICS

D04B KNITTING

NOTES

- 1. In this subclass, the groups designating machines, apparatus, devices, or implements include processes characterised by, or dependent on, their use and the products of such processes
- 2. Knitted products, i.e. fabrics, articles, are classified in this subclass only if they have constructional features which are of interest from the knitting aspect
- 3. In this subclass, further classification in indexing scheme D10B for aspects relating to textiles is required.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/265

. . . {Surgical stockings (of unspecified knit

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 | 1/28 | construction and reinforced <u>A41B 11/02</u>; of unspecified knit construction and elastic <u>A61F 13/08</u>)} gloves |
|-------|---|---------------|---|
| 1/02 | • Pile fabrics or articles having similar surface | 3/00 | Hand tools or implements |
| | features | 3/02 | . Needles |
| 1/025 | • • {incorporating loose fibres, e.g. high-pile fabrics | 3/04 | • Finger protectors; Thread tensioners |
| | or artificial fur} | 3/06 | • Ball holders or receptacles |
| 1/04 | • • characterised by thread material | 5/00 | |
| 1/06 | • Non-run fabrics or articles | 5/00 | Knitting apparatus or machines without needles for domestic use (with needles D04B 7/08) |
| 1/08 | • • characterised by thread material | | for domestic use (with needles <u>D04B //08</u>) |
| 1/10 | • Patterned fabrics or articles | 7/00 | Flat-bed knitting machines with independently- |
| 1/102 | • • {with stitch pattern (<u>D04B 1/06</u> , <u>D04B 1/08</u> take | | movable needles (straight-bar machines with fixed |
| | precedence)} | | needles <u>D04B 11/00</u>) |
| 1/104 | • • • {Openwork fabric, e.g. pelerine fabrics} | 7/02 | • with one set of needles |
| 1/106 | • • {at a selvedge, e.g. hems or turned welts} | 7/025 | • • {with stitch-length regulation (cam systems for |
| 1/108 | • • • {Gussets, e.g. pouches or heel or toe portions} | T (0.4 | stitch-length regulation <u>D04B 15/327</u>)} |
| 1/12 | • characterised by thread material | 7/04 | • with two sets of needles |
| 1/123 | . (with laid-in unlooped yarn, e.g. fleece fabrics (with elastic weft yarn <u>D04B 1/18</u>)} | 7/045 | • • { with stitch-length regulation (cam systems for stitch-length regulation <u>D04B 15/327</u>) } |
| 1/126 | • • • {with colour pattern, e.g. intarsia fabrics} | 7/06 | for purl work or Links-Links loop formation |
| 1/14 | • Other fabrics or articles characterised primarily by | 7/08 | . for domestic use |
| | the use of particular thread materials | 7/10 | with provision for narrowing or widening to |
| 1/16 | • • synthetic threads | | produce fully-fashioned goods |
| 1/18 | • elastic threads | 7/12 | • with provision for incorporating pile threads |
| 1/20 | crimped threads | 7/14 | • with provision for incorporating internal threads in |
| 1/22 | • specially adapted for knitting goods of particular | | laid-in fabrics |
| | configuration | 7/16 | • for producing fabrics consisting of, or incorporating |
| 1/225 | • Elongated tubular articles of small diameter, e.g. | 7/10 | elastic threads |
| 1/04 | coverings or reinforcements for cables or hoses} | 7/18 | • incorporated as weft or inlaid threads |
| 1/24 | • • wearing apparel | 7/20 | • with provision for changing the fabric construction, |
| 1/243 | • • • {upper parts of panties; pants} | 7/22 | e.g. from plain to rib-loop fabricwith special provision for commencing goods, e.g. |
| 1/246 | • • {Upper torso garments, e.g. sweaters, shirts, leotards} | 1/22 | with non-run edges |
| 1/26 | ••• stockings | 7/24 | for producing patterned fabrics |
| | | 7/26 | • • with colour patterns |
| | | 7/28 | • • with stitch patterns |

| 7/30 | • specially adapted for knitting goods of particular |
|--------------------------|---|
| 7/32 | configuration |
| 7/34 | • • tubular goods |
| 1/34 | • • · gloves |
| 9/00 | Circular knitting machines with independently- |
| | movable needles (with fixed spring or bearded |
| | needles <u>D04B 13/00</u>) |
| 9/02 | • with one set of needles |
| 9/025 | • • {with stitch-length regulation (cam systems for |
| | stitch-length regulation <u>D04B 15/327</u>)} |
| 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 |
| 0/09 | stitch-length regulation <u>D04B 15/327</u>)} |
| 9/08 0/10 | • 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 |
| 9/12 | with provision for incorporating loose fibres, e.g. in |
| <i>)</i> /1 1 | 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, |
| 0/24 | e.g. from plain to rib-loop fabric |
| 9/24 | • with special provision for commencing goods, e.g. |
| 0/26 | with non-run edges |
| 9/26 9/28 | for producing patterned fabricswith colour patterns |
| 9/28 9/30 | - |
| 9/30 9/32 | . by striping . by wrap striping |
| 9/34 | •••••••••••••••••••••••••••••••••••••• |
| 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 |
| 0/44 | <u>H01B 13/22</u>) |
| 9/46 0/48 | stockings, or portions thereof |
| 9/48 | • • • non-run stockings |
| 9/50 9/52 | micromesh stockings surgical stockings |
| 9/32 9/54 | surgical stockings welts, e.g. double or turned welts |
| 9/54 9/56 | wens, e.g. double of furned wens heel or toe portions |
| 9/50 9/58 | gloves |
| 7/30 | - |
| 11/00 | Straight-bar knitting machines with fixed needles |
| | (flat-bed machines with independently-movable |
| 11/02 | needles D04B 7/00) |
| 11/02 | • with one set of needles |
| 11/025 11/04 | . {with stitch-length-regulating mechanism}. with two sets of needles |
| 11/04 11/06 | with two sets of needles with provision for narrowing or widening to |
| 11/00 | produce fully-fashioned goods |
| 11/08 | with provision for incorporating pile threads |
| 11/10 | with provision for incorporating internal threads in |
| | 1 |

| 11/12 | • for producing fabrics from, or incorporating, elastic |
|-------------------------|--|
| 11/14 | threadswith provision for changing the fabric construction, |
| 11/16 | 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 | • • welts, e.g. double or turned welts |
| 11/34 | heel or toe portions |
| 11/36 | • • other wearing apparel |
| 12/00 | |
| 13/00 | Circular knitting machines with fixed spring or bearded needles, e.g. loop-wheel machines (with |
| | independently-movable needles <u>D04B 9/00</u>) |
| 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 |
| 15/02 | for straight-bar knitting machines |
| 15/06 | • Sinkers |
| 15/08 | Needle latch openers; Brushes |
| 15/10 | Needle beds |
| 15/12 | Shogging devices therefor |
| 15/12 | 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 |
| 15/205 | for dials <u>D04B 15/34</u>)} |
| 15/325 | • {in circular knitting machines with two opposed |
| 15/207 | needle cylinders} |
| 15/327 15/34 | . {for stitch-length regulation}. for dials |
| 15/34 | for flat-bed knitting machines |
| 15/362 | {with two needle beds in V-formation} |
| 15/365 | |
| | needle bed to the other} |
| 15/367 | • • {with two opposed needle beds} |
| 15/38 | • Devices for supplying, feeding, or guiding threads |
| 15/40 | 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 |
| 15/44 15/46 15/48 | |

| 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 |
| 10/// | <u>D04B 15/665</u>)} |
| 15/76 | Pattern wheels |
| 15/78 | Electrical devices |
| 15/80 | • • characterised by the thread guides used |
| 15/82 | characterised by the needle cams used |
| 15/84 | Jacquard cards or mechanisms (stamping apparatus therefor <u>D03C</u>) |
| 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 |
| <u>Repairing o</u> | r unravelling knitted fabrics |
| 17/00 | Repairing knitted fabrics by knitting operations |
| 17/02 | • by darning |
| 17/02 | by picking-up dropped stitches |
| | |
| 19/00 | Unravelling knitted fabrics |
| <u>Warp knitti</u> | ng; <u>Machines therefor</u> |
| 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 |

features 21/04 . characterised by thread material 21/06 . Patterned fabrics or articles (open-work fabrics D04B 21/10)

| 01/00 | |
|--|---|
| 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} |
| 21/16 | • • incorporating synthetic threads |
| 21/165 | • • • { with yarns stitched through one or more |
| | layers or tows, e.g. stitch-bonded fabrics |
| | (layered products not united by stitch loops |
| | <u>B32B 5/22</u>)} |
| 21/18 | incorporating elastic threads |
| 21/20 | • specially adapted for knitting articles of particular |
| | configuration |
| 21/202 | • • {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} |
| 22/00 | |
| 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, |
| 02/10 | or around elongated core material |
| 23/12 | with provision for incorporating unlooped wefts extending from selvedge to selvedge |
| | |
| 22/14 | with provision for incorporating small auxiliary |
| 23/14 | • with provision for incorporating small auxiliary elements, e.g. for decorative purposes |
| | elements, e.g. for decorative purposes |
| 23/14 23/16 | elements, e.g. for decorative purposes • specially adapted for producing fabrics, or article |
| 23/16 | elements, e.g. for decorative purposesspecially adapted for producing fabrics, or article blanks, of particular form or configuration |
| 23/16 23/18 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening |
| 23/16 23/18 23/20 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks |
| 23/16 23/18 23/20 23/22 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means |
| 23/16 23/18 23/20 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce |
| 23/16 23/18 23/20 23/22 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns |
| 23/16 23/18 23/20 23/22 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns |
| 23/16 23/18 23/20 23/22 23/24 25/00 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines |
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| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/02 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines Galloon crocheting machines for producing pile fabrics |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing pile fabrics |
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| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 25/12 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing pile fabrics with independently-movable weft-thread guides controlled by Jacquard mechanisms |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing patterned fabrics with independently-movable weft-thread guides controlled by Jacquard mechanisms specially adapted for producing articles of |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 25/12 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing pile fabrics with independently-movable weft-thread guides controlled by Jacquard mechanisms |
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| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 25/12 25/14 27/00 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing patterned fabrics with independently-movable weft-thread guides controlled by Jacquard mechanisms specially adapted for producing articles of particular configuration Details of, or auxiliary devices incorporated in, warp knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 35/00) |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 25/12 25/14 27/00 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing patterned fabrics for producing patterned fabrics specially adapted for producing articles of particular configuration Details of, or auxiliary devices incorporated in, warp knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 35/00) Warp-thread guides |
| 23/16 23/18 23/20 23/22 23/24 25/00 25/02 25/04 25/06 25/08 25/10 25/12 25/14 27/00 27/02 27/02 | elements, e.g. for decorative purposes specially adapted for producing fabrics, or article blanks, of particular form or configuration with provision for narrowing or widening for producing stocking blanks with special thread-guiding means with cut needle presser arrangements to produce patterns Warp knitting machines not otherwise provided for Tubular machines Milanese machines for producing pile fabrics for producing patterned fabrics with independently-movable weft-thread guides controlled by Jacquard mechanisms specially adapted for producing articles of particular configuration Details of, or auxiliary devices incorporated in, warp knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 35/00) Warp-thread guides Sinkers |

| 27/10 | Devices for some bing for diagona widing threads |
|-------|---|
| 27/10 | • Devices for supplying, feeding, or guiding threads to needles |
| | 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 |
| | |

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

| 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 <u>D04B 15/00</u> or <u>D04B 27/00</u> (needle manufacture <u>B21G 1/00</u>) |
| 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 <u>F16N</u>) |
| 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 <u>D03C</u>) |
| 37/02 | • with weft knitting machines |
| 37/04 | • for inserting or adjusting pattern pins or like elements in pattern drums or wheels |

| • | with warp knitting machines |
|---|-----------------------------|
|---|-----------------------------|

37/06

| 39/00 | Knitting processes, apparatus or machines not otherwise provided for |
|-------|--|
| 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