

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SHAPING

B21 MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL (casting, powder metallurgy [B22](#); shearing [B23D](#); working of metal by the action of a high concentration of electric current [B23H](#); soldering, welding, flame-cutting [B23K](#); other working of metal [B23P](#); punching sheet material in general [B26F](#); processes for changing of physical properties of metals [C21D](#), [C22F](#); electroforming [C25D 1/00](#))

(NOTES omitted)

B21G MAKING NEEDLES, PINS OR NAILS OF METAL

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.

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|-------------|--|-------------|--|
| 1/00 | Making needles used for performing operations (forming heads on pin-like needles B21G 3/12 ; making U-shaped hairpins B21G 7/04) | 3/18 | . by operations not restricted to one of the groups B21G 3/12 - B21G 3/16 (B21G 3/06 - B21G 3/10 take precedence) |
| 1/003 | . {Needles for special purposes, e.g. knitting, crochet, hat-pins} | 3/20 | . . from wire of indefinite length (by rolling B21G 3/30) |
| 1/006 | . {Special treatments of pins or needles, e.g. annealing, straightening} | 3/22 | . . . in pairs arranged head to head |
| 1/02 | . of needles with eyes, e.g. sewing-needles, sewing-awls | 3/24 | . . . by simultaneously forming the head of one nail and the adjacent point of another |
| 1/04 | . . of needles specially adapted for use in machines or tools | 3/26 | . . by cutting from strip or sheet material |
| 1/06 | . of needles with hook or barb, e.g. crochet hooks | 3/28 | . . by forging or pressing |
| 1/08 | . of hollow needles or needles with hollow end, e.g. hypodermic needles, larding-needles (B21G 1/10 takes precedence) | 3/30 | . . by rolling |
| 1/10 | . equipped with locking means for the material to be drawn through, e.g. for repairing tubeless tyres | 3/32 | . Feeding material to be worked to nail or pin making machines |
| 1/12 | . Securing, cleaning-off burrs, reconditioning polishing, grinding (takes precedence over B21G 1/02 - B21G 1/10) | 5/00 | Making pins or nails with attached caps or with coated heads |
| 3/00 | Making pins, nails, or the like (of pins with individual caps B21G 5/00 ; of U-like shape B21G 7/00 ; of split-pins B21G 7/08) | 5/02 | . of drawing-pins or pins of drawing-pin type |
| 3/005 | . {Nails or pins for special purposes, e.g. curtain pins} | 7/00 | Making pins of U-like shape or split-pins (of paper fasteners or staples B21D 53/46 , B21F 45/16) |
| 3/02 | . of pins of the kind used in the tailoring trade or the house- hold | 7/02 | . of U-like shape |
| 3/04 | . . with locking or shielding device for the pin point, e.g. safety-pins | 7/04 | . . of hairpins |
| 3/06 | . of nails with shoulders | 7/06 | . . . of undulated hairpins |
| 3/08 | . of nails with head and two or more shanks or split shanks | 7/08 | . of split-pins, e.g. cotter-pins |
| 3/10 | . of undulated nails or pins | | |
| 3/12 | . Upsetting; Forming heads | | |
| 3/14 | . Reducing diameter of parts otherwise than by rolling | | |
| 3/16 | . Pointing; with or without cutting | | |