

CPC COOPERATIVE PATENT CLASSIFICATION

B21G MAKING NEEDLES, PINS OR NAILS

- B21G 1/00** **Making needles used for performing operations** (forming heads on pin-like needles [B21G 3/12](#); making U-shaped hairpins [B21G 7/04](#))
- B21G 1/003** . {Needles for special purposes, e.g. knitting, crochet, hat-pins}
- B21G 1/006** . {Special treatments of pins or needles, e.g. annealing, straightening}
- B21G 1/02** . of needles with eyes, e.g. sewing-needles, sewing-awls
- B21G 1/04** . . of needles specially adapted for use in machines or tools
- B21G 1/06** . of needles with hook or barb, e.g. crochet hooks
- B21G 1/08** . of hollow needles or needles with hollow end, e.g. hypodermic needles, larding-needles ([B21G 1/10](#) takes precedence)
- B21G 1/10** . equipped with locking means for the material to be drawn through, e.g. for repairing tubeless tyres
- B21G 1/12** . Securing, cleaning-off burrs, reconditioning polishing, grinding ([takes precedence over B21G 1/02 to B21G 1/10](#))
- B21G 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](#))
- B21G 3/005** . {Nails or pins for special purposes, e.g. curtain pins}
- B21G 3/02** . of pins of the kind used in the tailoring trade or the house- hold
- B21G 3/04** . . with locking or shielding device for the pin point, e.g. safety-pins
- B21G 3/06** . of nails with shoulders
- B21G 3/08** . of nails with head and two or more shanks or split shanks
- B21G 3/10** . of undulated nails or pins
- B21G 3/12** . Upsetting; Forming heads
- B21G 3/14** . Reducing diameter of parts otherwise than by rolling
- B21G 3/16** . Pointing; with or without cutting
- B21G 3/18** . by operations not restricted to one of the groups [B21G 3/12](#) to [B21G 3/16](#)([B21G 3/06](#) to [B21G 3/10](#) take precedence)

- B21G 3/20 . . from wire of indefinite length (by rolling [B21G 3/30](#))
- B21G 3/22 . . . in pairs arranged head to head
- B21G 3/24 . . . by simultaneously forming the head of one nail and the adjacent point of another
- B21G 3/26 . . by cutting from strip or sheet material
- B21G 3/28 . . by forging or pressing
- B21G 3/30 . . by rolling

- B21G 3/32 . Feeding material to be worked to nail or pin making machines

B21G 5/00 Making pins or nails with attached caps or with coated heads

- B21G 5/02 . of drawing-pins or pins of drawing-pin type

B21G 7/00 Making pins of U-like shape or split-pins (of paper fasteners or staples [B21D 53/46](#), [B21F 45/16](#))

- B21G 7/02 . of U-like shape
- B21G 7/04 . . of hairpins
- B21G 7/06 . . . of undulated hairpins
- B21G 7/08 . of split-pins, e.g. cotter-pins