

**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