**CPC**  COOPERATIVE PATENT CLASSIFICATION

**B**  PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

**SHAPING**

**B21**  MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL

(NOTES omitted)

**B21L**  MAKING METAL CHAINS (making chains or chain links by casting **B22D 25/02**: chains in general **F16G**)

**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 chains or chain links by bending workpieces of rod, wire, or strip to form links of oval or other simple shape (B21L 3/00, B21L 7/00 take precedence)

1/02  . . by bending the ends of the workpieces to abut

1/04  . . by bending and interconnecting the ends of the workpieces with or without separate joining members

3/00  Making chains or chain links by bending the chain links or link parts and subsequently welding or soldering the abutting ends (B21L 7/00 takes precedence)

3/02  . . Machines or devices for welding chain links

3/04  . . by making use of forge or pressure welding

5/00  Making chains or chain links by working the starting material in such a way that integral, i.e. jointless, chains links are formed

5/02  . . in such a way that interconnected links are formed

7/00  Making chains or chain links by cutting single loops or loop-parts from coils, assembling the cut parts and subsequently subjecting same to twisting with or without welding

9/00  Making chains or chain links, the links being composed of two or more different parts, e.g. drive chains (B21L 1/04, B21L 7/00, B21L 11/14, B21L 13/00 take precedence)

9/02  . . of roller-chain or other plate-link type

9/04  . . Punching or bending the different parts of the chain links

9/06  . . Sorting, feeding, assembling, riveting, or finishing parts of chains

9/065  . . [Assembling or disassembling]

9/08  . . Combining the chain links with auxiliary parts, e.g. welding-on wear-resistant parts

11/00  Making chains or chain links of special shape

11/005  . {Making ornamental chains (B21L 11/02 - B21L 11/14 take precedence; ornamental chains A44C)}

11/02  . each link being formed of a single member of which both ends are bent or shaped to engage the middle portions of the next link

11/04  . . the ends being pierced or punched to form eyes

11/06  . . the workpiece being of thin strip metal

11/08  . . the ends being interengaged with other parts of the same link

11/10  . the chain links having opposed correspondingly shaped cylindrical and hook-like parts of which one part forms a hinge-like support for the adjacent link (B21L 11/02 takes precedence)

11/12  . Forming bead chains

11/14  . Making chain links with inserted or integrally-formed studs

13/00  Making terminal or intermediate chain links of special shape; Making couplings for chains, e.g. swivels, shackles

15/00  Finishing or dressing chains or chain links, e.g. removing burr material, calibrating (B21L 9/06 takes precedence)

15/005  . [Pre-stretching chains]

15/02  . Twisting already closed links

19/00  Appurtenances for chain-making not restricted to any particular process

21/00  Tools or implements for repairing chains using metal-working operations, e.g. for detaching deformed chain links

99/00  Subject matter not provided for in other groups of this subclass