

CPC**COOPERATIVE PATENT CLASSIFICATION****B21L**

MAKING CHAINS (making chains or chain links by casting [B22D 25/02](#); chains in general [F16G](#))

B21L 1/00

Making chains or chain links by bending work-pieces of rod, wire, or strip to form links of oval or other simple shape ([B21L 3/00](#), [B21L 7/00](#) take precedence)

B21L 1/02

. by bending the ends of the workpieces to abut

B21L 1/04

. by bending and interconnecting the ends of the workpieces with or without separate jointing members

B21L 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)

B21L 3/02

. Machines or devices for welding chain links

B21L 3/04

.. by making use of forge or pressure welding

B21L 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

B21L 5/02

. in such a way that interconnected links are formed

B21L 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

B21L 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)

B21L 9/02

. of roller-chain or other plate-link type

B21L 9/04

.. Punching or bending the different parts of the chain links

B21L 9/06

.. Sorting, feeding, assembling, riveting, or finishing parts of chains

B21L 9/065

... {Assembling or disassembling}

B21L 9/08

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

B21L 11/00

Making chains or chain links of special shape

B21L 11/005

. {Making ornamental chains ([B21L 11/02](#) to [B21L 11/14](#) take precedence; ornamental chains [A44C](#))}

- B21L 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
- B21L 11/04
 - . . the ends being pierced or punched to form eyes
- B21L 11/06
 - . . . the workpiece being of thin strip metal
- B21L 11/08
 - . . the ends being interengaged with other parts of the same link
- B21L 11/10
 - . the chain links having opposed correspondingly shaped cylindrical and hook-like parts of which one parts forms a hinge-like support for the adjacent link ([B21L 11/02 takes precedence](#))
- B21L 11/12
 - . forming bead chains
- B21L 11/14
 - . making chain links with inserted or integrally-formed studs
- B21L 13/00**

Making terminal or intermediate chain links of special shape; making couplings for chains, e.g. swivels, shackles
- B21L 15/00**

Finishing or dressing chains or chain links, e.g. removing burr material, calibrating ([B21L 9/06 takes precedence](#))
- B21L 15/005
 - . { [Pre-stretching chains](#) }
- B21L 15/02
 - . Twisting already closed links
- B21L 19/00**

Appurtenances for chain-making not restricted to any particular process
- B21L 21/00**

Tools or implements for repairing chains using metal-working operations. e.g. for detaching deformed chain links
- B21L 99/00**

Subject matter not provided for in other groups of this subclass