

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 joining 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