

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.

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)	11/02	<ul style="list-style-type: none">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
1/02	<ul style="list-style-type: none">by bending the ends of the workpieces to abut	11/04	<ul style="list-style-type: none"><ul style="list-style-type: none">the ends being pierced or punched to form eyes
1/04	<ul style="list-style-type: none">by bending and interconnecting the ends of the workpieces with or without separate jointing members	11/06	<ul style="list-style-type: none"><ul style="list-style-type: none">the workpiece being of thin strip metal
		11/08	<ul style="list-style-type: none"><ul style="list-style-type: none">the ends being interengaged with other parts of the same link
		11/10	<ul style="list-style-type: none">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)
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)	11/12	<ul style="list-style-type: none">Forming bead chains
3/02	<ul style="list-style-type: none">Machines or devices for welding chain links	11/14	<ul style="list-style-type: none">Making chain links with inserted or integrally-formed studs
3/04	<ul style="list-style-type: none"><ul style="list-style-type: none">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	13/00	Making terminal or intermediate chain links of special shape; Making couplings for chains, e.g. swivels, shackles
5/02	<ul style="list-style-type: none">in such a way that interconnected links are formed	15/00	Finishing or dressing chains or chain links, e.g. removing burr material, calibrating (B21L 9/06 takes precedence)
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	15/005	<ul style="list-style-type: none">{Pre-stretching chains}
		15/02	<ul style="list-style-type: none">Twisting already closed links
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)	19/00	Appurtenances for chain-making not restricted to any particular process
9/02	<ul style="list-style-type: none">of roller-chain or other plate-link type	21/00	Tools or implements for repairing chains using metal-working operations, e.g. for detaching deformed chain links
9/04	<ul style="list-style-type: none"><ul style="list-style-type: none">Punching or bending the different parts of the chain links		
9/06	<ul style="list-style-type: none"><ul style="list-style-type: none">Sorting, feeding, assembling, riveting, or finishing parts of chains		
9/065	<ul style="list-style-type: none"><ul style="list-style-type: none"><ul style="list-style-type: none">{Assembling or disassembling}		
9/08	<ul style="list-style-type: none"><ul style="list-style-type: none">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	<ul style="list-style-type: none">{Making ornamental chains (B21L 11/02 - B21L 11/14 take precedence; ornamental chains A44C)}	99/00	Subject matter not provided for in other groups of this subclass