SECTION B — PERFORMING OPERATIONS; TRANSPORTING

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

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

Subclass index

GENERAL METHODS OF WORKING
Chains made from individual links....1/00, 3/00, 7/00, 9/00
Chains with integral links....5/00
METHODS FOR MAKING SPECIAL CHAINS OR PARTS THEREOF....11/00, 13/00
TOOLS FOR MANUFACTURE OR REPAIR....19/00, 21/00
FINISHING....15/00
OTHER MANUFACTURE....99/00

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 jointing 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, chain 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

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

11/00 Making chains or chain links of special shape

11/02 • each link being formed of a single member of which both ends are bent or shaped to engage the middle portion 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)

15/02 • 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 [2009.01]