

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### SHAPING

**B21 MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL** (casting, powder metallurgy [B22](#); shearing [B23D](#); working of metal by the action of a high concentration of electric current [B23H](#); soldering, welding, flame-cutting [B23K](#); other working of metal [B23P](#); punching sheet material in general [B26F](#); processes for changing of physical properties of metals [C21D](#), [C22F](#); electroforming [C25D 1/00](#))

(NOTES omitted)

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

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| <p><b>1/00</b> Making chains or chain links by bending workpieces of rod, wire, or strip to form links of oval or other simple shape (<a href="#">B21L 3/00</a>, <a href="#">B21L 7/00</a> take precedence)</p> <p>1/02 . by bending the ends of the workpieces to abut</p> <p>1/04 . by bending and interconnecting the ends of the workpieces with or without separate jointing members</p> <p><b>3/00</b> Making chains or chain links by bending the chain links or link parts and subsequently welding or soldering the abutting ends (<a href="#">B21L 7/00</a> takes precedence)</p> <p>3/02 . Machines or devices for welding chain links</p> <p>3/04 . . by making use of forge or pressure welding</p> <p><b>5/00</b> Making chains or chain links by working the starting material in such a way that integral, i.e. jointless, chains links are formed</p> <p>5/02 . in such a way that interconnected links are formed</p> <p><b>7/00</b> 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</p> <p><b>9/00</b> Making chains or chain links, the links being composed of two or more different parts, e.g. drive chains (<a href="#">B21L 1/04</a>, <a href="#">B21L 7/00</a>, <a href="#">B21L 11/14</a>, <a href="#">B21L 13/00</a> take precedence)</p> <p>9/02 . of roller-chain or other plate-link type</p> <p>9/04 . . Punching or bending the different parts of the chain links</p> <p>9/06 . . Sorting, feeding, assembling, riveting, or finishing parts of chains</p> <p>9/065 . . . {Assembling or disassembling}</p> <p>9/08 . . Combining the chain links with auxiliary parts, e.g. welding-on wear-resistant parts</p> <p><b>11/00</b> Making chains or chain links of special shape</p> <p>11/005 . {Making ornamental chains (<a href="#">B21L 11/02</a> - <a href="#">B21L 11/14</a> take precedence; ornamental chains <a href="#">A44C</a>)}</p> | <p>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</p> <p>11/04 . . the ends being pierced or punched to form eyes</p> <p>11/06 . . . the workpiece being of thin strip metal</p> <p>11/08 . . the ends being interengaged with other parts of the same link</p> <p>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 (<a href="#">B21L 11/02</a> takes precedence)</p> <p>11/12 . Forming bead chains</p> <p>11/14 . Making chain links with inserted or integrally-formed studs</p> <p><b>13/00</b> Making terminal or intermediate chain links of special shape; Making couplings for chains, e.g. swivels, shackles</p> <p><b>15/00</b> Finishing or dressing chains or chain links, e.g. removing burr material, calibrating (<a href="#">B21L 9/06</a> takes precedence)</p> <p>15/005 . {Pre-stretching chains}</p> <p>15/02 . Twisting already closed links</p> <p><b>19/00</b> Appurtenances for chain-making not restricted to any particular process</p> <p><b>21/00</b> Tools or implements for repairing chains using metal-working operations, e.g. for detaching deformed chain links</p> <p><b>99/00</b> Subject matter not provided for in other groups of this subclass</p> |
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