

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### SHAPING

## B28 WORKING CEMENT, CLAY, OR STONE

## B28D WORKING STONE OR STONE-LIKE MATERIALS

### 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.

<p><b>1/00</b> Working stone or stone-like materials, e.g. brick, concrete {or glass}, not provided for elsewhere; Machines, devices, tools therefor (fine working of gems, jewels, crystals <a href="#">B28D 5/00</a>; working by grinding or polishing <a href="#">B24</a>; devices or means for dressing or conditioning abrasive surfaces <a href="#">B24B 53/00</a>)</p> <p>1/001 . {Cleaning bricks (by milling <a href="#">B28D 1/185</a>)}</p> <p>1/003 . {Multipurpose machines; Equipment therefor}</p> <p>1/005 . {Cutting sheet laminae in planes between faces (splitting easily splittable material <a href="#">B28D 1/322</a>)}</p> <p>1/006 . {Artificial ageing of stones; Providing stones with an antique appearance}</p> <p>1/008 . . {by means of a tumbler}</p> <p>1/02 . by sawing</p> <p>1/025 . . {Use, recovery or regeneration of abrasive mediums (<a href="#">B28D 5/007</a> takes precedence; for grinding and polishing in general <a href="#">B24B 57/00</a>)}</p> <p>1/04 . . with circular {or cylindrical} saw-blades or saw-discs (<a href="#">B28D 1/10</a> takes precedence)</p> <p>1/041 . . . {with cylinder saws, e.g. trepanning; saw cylinders, e.g. having their cutting rim equipped with abrasive particles}</p> <p>1/042 . . . {the saw blade being carried by a pivoted lever (<a href="#">B28D 1/043</a> and <a href="#">B28D 1/044</a> take precedence)}</p> <p>1/043 . . . {Gantry type sawing machines}</p> <p>1/044 . . . {the saw blade being movable on slide ways (<a href="#">B28D 1/043</a> takes precedence)}</p> <p>1/045 . . . {Sawing grooves in walls; sawing stones from rocks; sawing machines movable on the stones to be cut}</p> <p>1/046 . . . {Sawing in a plane parallel to the work table}</p> <p>1/047 . . . {with the work mounted on a carriage}</p> <p>1/048 . . . {with a plurality of saw blades (<a href="#">B28D 1/046</a> takes precedence)}</p> <p>1/06 . . with reciprocating saw-blades (<a href="#">B28D 1/10</a> takes precedence)</p> <p>1/062 . . . {the saw blade rotating about its longitudinal axis}</p> <p>1/064 . . . {Sawing grooves in walls; portable sawing machines}</p> <p>1/066 . . . {the workpieces being moved in a horizontal plane, e.g. with vertically or oblique movable saw-blades}</p>	<p>1/068 . . . {Components, e.g. guiding means, vibrations damping means, frames, driving means, suspension}</p> <p>1/08 . . with saw-blades of endless cutter-type, e.g. chain saws {, i.e. saw chains}, strap saws (<a href="#">B28D 1/10</a> takes precedence)</p> <p>1/082 . . . {consisting of chain saws}</p> <p>1/084 . . . . {the saw chains being mounted on a pivotingly adjustable arm}</p> <p>1/086 . . . {consisting of strap saws}</p> <p>1/088 . . . {Sawing <i>in situ</i>, e.g. stones from rocks, grooves in walls}</p> <p>1/10 . . with provision for measuring</p> <p>1/12 . . Saw-blades {or saw-discs} specially adapted for working stone (<a href="#">B28D 1/041</a> takes precedence)}</p> <p>1/121 . . . {Circular saw blades}</p> <p>1/122 . . . . {with exchangeable cutter bits or cutter segments}</p> <p>1/124 . . . {Saw chains; rod-like saw blades; saw cables}</p> <p>1/125 . . . . {with exchangeable cutter bits or cutter segments}</p> <p>1/127 . . . {Straight, i.e. flat, saw blades; strap saw blades}</p> <p>1/128 . . . . {with exchangeable cutter bits or cutter segments}</p> <p>1/14 . by boring or drilling (rotary drilling machines <a href="#">B23B</a>; {tools for drilling machines <a href="#">B23B 51/00</a>}; portabe percussive machines <a href="#">B25D</a>; {rotary drilling machines for mining or quarrying <a href="#">E21B 3/00</a>)}</p> <p>1/143 . . {lens-drilling machines}</p> <p>1/146 . . {Tools therefor (drill bits for earth or rock drilling <a href="#">E21B 10/00</a>)}</p> <p>1/16 . by turning</p> <p>1/18 . by milling, e.g. channelling by means of milling tools</p> <p>1/181 . . {using cutters loosely mounted on a turning tool support}</p> <p>1/183 . . {Hand tools, e.g. portable, motor driven}</p> <p>1/185 . . {for brick cleaning}</p> <p>1/186 . . {Tools therefor, e.g. having exchangeable cutter bits (<a href="#">B28D 1/181</a> takes precedence; bits for picks or pick-holders for mining or quarrying <a href="#">E21C 35/18</a>)}</p> <p>1/188 . . . {with exchangeable cutter bits or cutter segments}</p>
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- 1/20 . . by planing, e.g. channelling by means of planing tools
- 1/22 . . by cutting, e.g. incising
- 1/221 . . {by thermic methods}
- 1/222 . . {by pressing, e.g. presses}
- 1/223 . . . {Hand-held or hand-operated tools for shearing or cleaving}
- 1/225 . . {for scoring or breaking, e.g. tiles}
- 1/226 . . . {with plural scoring tools}
- 1/227 . . {for cutting tubes}
- 1/228 . . {Hand-held or hand-operated tools ([B28D 1/222](#), [B28D 1/225](#) take precedence)}
- 1/24 . . with cutting discs
- 1/26 . . by impact tools, e.g. by chisels or other tools having a cutting edge ([portable percussive tools B25D](#))
- 1/265 . . {Scabbling machines or scabbling tools}
- 1/28 . . without cutting edge {, e.g. chiseling machines}
- 1/30 . . to form contours, i.e. curved surfaces, irrespective of the method of working used ([for artistic purposes B44B](#))
- 1/32 . . Methods and apparatus specially adapted for working materials which can easily be split, e.g. mica, slate, schist
- 1/322 . . {Splitting of the working materials}
- 1/325 . . {for making holes in easily splittable working materials}
- 1/327 . . {for cutting or shearing easily splittable working materials}
- 3/00 Dressing mill discs or rollers (dressing the tools of sawing machines or sawing devices [B23D 63/00](#); treating the cutting members of cutting machines to facilitate cutting [B26D 7/08](#))**
- 3/005 . . {Tools therefor}
- 3/02 . . Machines
- 3/04 . . for grooving rollers
- 5/00 Fine working of gems, jewels, crystals, e.g. of semiconductor material; apparatus or devices therefor (working by grinding or polishing [B24](#); for artistic purposes [B44B](#))**
- 5/0005 . . {by breaking, e.g. dicing}
- 5/0011 . . . {with preliminary treatment, e.g. weakening by scoring}
- 5/0017 . . . {using moving tools}
- 5/0023 . . . . {rectilinearly}
- 5/0029 . . . . {rotating}
- 5/0035 . . . . . {cooperating with a straight breaking edge}
- 5/0041 . . . {the workpiece being brought into contact with a suitably shaped rigid body which remains stationary during breaking}
- 5/0047 . . . . {using fluid or gas pressure}
- 5/0052 . . . {Means for supporting or holding work during breaking ([means for conveying work to or discharging work from the breaking machine B28D 5/0058](#))}
- 5/0058 . . {Accessories specially adapted for use with machines for fine working of gems, jewels, crystals, e.g. of semiconductor material ([B28D 5/0005](#), [B28D 5/024](#) take precedence)}
- 5/0064 . . . {Devices for the automatic drive or the program control of the machines}
- 5/007 . . . {Use, recovery or regeneration of abrasive mediums ([for grinding and polishing in general B24B 57/00](#))}
- 5/0076 . . . {for removing dust, e.g. by spraying liquids; for lubricating, cooling or cleaning tool or work}
- 5/0082 . . . {for supporting, holding, feeding, conveying or discharging work}
- 5/0088 . . . . {the supporting or holding device being angularly adjustable}
- 5/0094 . . . . {the supporting or holding device being of the vacuum type}
- 5/02 . . by rotary tools, e.g. drills ([B28D 5/0005](#) takes precedence)}
- 5/021 . . . {by drilling}
- 5/022 . . . {by cutting with discs or wheels}
- 5/023 . . . . {with a cutting blade mounted on a carriage}
- 5/024 . . . . {with the stock carried by a movable support for feeding stock into engagement with the cutting blade, e.g. stock carried by a pivoted arm or a carriage}
- 5/025 . . . . . {with the stock carried by a pivoted arm}
- 5/026 . . . . {with a cutting blade carried by a movable arm, e.g. pivoted ([B28D 5/023](#) and [B28D 5/028](#) take precedence)}
- 5/027 . . . . {with a cutting blade arranged underneath a stationary work table}
- 5/028 . . . . {with a ring blade having an inside cutting edge}
- 5/029 . . . . . {with a plurality of cutting blades}
- 5/04 . . by tools other than rotary type, e.g. reciprocating tools ([B28D 5/0005](#) takes precedence)}
- 5/042 . . . {by cutting with blades or wires mounted in a reciprocating frame}
- 5/045 . . . {by cutting with wires or closed-loop blades ([B28D 5/042](#) takes precedence)}
- 5/047 . . . {by ultrasonic cutting (using abrading substances or abrading tools subjected to a bouncing action by ultrasonic energy [B24B 1/04](#))}
- 7/00 Accessories specially adapted for use with machines or devices of the preceding groups ([B28D 5/0058](#) takes precedence)}**
- 7/005 . . {Devices for the automatic drive or the program control of the machines}
- 7/02 . . for removing or laying dust, e.g. by spraying liquids; for cooling work
- 7/04 . . for supporting or holding work {or conveying or discharging work ([B28D 1/047](#), [B28D 5/0041](#), [B28D 5/0052](#) take precedence)}
- 7/043 . . . {the supporting or holding device being angularly adjustable}
- 7/046 . . . {the supporting or holding device being of the vacuum type}