

CPC**COOPERATIVE PATENT CLASSIFICATION****B28D****WORKING STONE OR STONE-LIKE MATERIALS****B28D 1/00**

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 [B28D 5/00](#); working by grinding or polishing [B24](#); devices or means for dressing or conditioning abrasive surfaces [B24B 53/00](#))

- B28D 1/001 . {Cleaning bricks (by milling [B28D 1/185](#))}
- B28D 1/003 . {Multipurpose machines; Equipment therefor}
- B28D 1/005 . {Cutting sheet laminae in planes between faces (splitting easily splittable material [B28D 1/322](#))}
- B28D 1/006 . {Artificial ageing of stones; Providing stones with an antique appearance}
- B28D 1/008 .. {by means of a tumbler}
- B28D 1/02 . by sawing
- B28D 1/025 .. {Use, recovery or regeneration of abrasive mediums ([B28D 5/007](#) takes precedence; for grinding and polishing in general [B24B 57/00](#))}
- B28D 1/04 .. with circular {or cylindrical} saw-blades or saw-discs ([B28D 1/10](#) takes precedence)
- B28D 1/041 ... {with cylinder saws, e.g. trepanning; saw cylinders, e.g. having their cutting rim equipped with abrasive particles}
- B28D 1/042 ... {the saw blade being carried by a pivoted lever ([B28D 1/043](#) and [B28D 1/044](#) take precedence)}
- B28D 1/043 ... {Gantry type sawing machines}
- B28D 1/044 ... {the saw blade being movable on slide ways ([B28D 1/043](#) takes precedence)}
- B28D 1/045 ... {Sawing grooves in walls; sawing stones from rocks; sawing machines movable on the stones to be cut}
- B28D 1/046 ... {Sawing in a plane parallel to the work table}
- B28D 1/047 ... {with the work mounted on a carriage}
- B28D 1/048 ... {with a plurality of saw blades ([B28D 1/046](#) takes precedence)}
- B28D 1/06 .. with reciprocating saw-blades ([B28D 1/10](#) takes precedence)
- B28D 1/062 ... {the saw blade rotating about its longitudinal axis}
- B28D 1/064 ... {Sawing grooves in walls; portable sawing machines}
- B28D 1/066 ... {the workpieces being moved in a horizontal plane, e.g. with vertically or oblique movable saw-blades}
- B28D 1/068 ... {Components, e.g. guiding means, vibrations damping means, frames, driving means, suspension}
- B28D 1/08 .. with saw-blades of endless cutter-type, e.g. chain saws {i.e. saw chains}, strap saws ([B28D 1/10](#) takes precedence)
- B28D 1/082 ... {consisting of chain saws}
- B28D 1/084 {the saw chains being mounted on a pivotingly adjustable arm}
- B28D 1/086 ... {consisting of strap saws}
- B28D 1/088 ... {Sawing in situ, e.g. stones from rocks, grooves in walls}
- B28D 1/10 .. with provision for measuring

- B28D 1/12 .. Saw-blades {or saw-discs} specially adapted for working stone {(B28D 1/041 takes precedence)}
- B28D 1/121 ... {Circular saw blades}
- B28D 1/122 {with exchangeable cutter bits or cutter segments}
- B28D 1/124 ... {Saw chains; rod-like saw blades; saw cables}
- B28D 1/125 {with exchangeable cutter bits or cutter segments}
- B28D 1/127 ... {Straight, i.e. flat, saw blades; strap saw blades}
- B28D 1/128 {with exchangeable cutter bits or cutter segments}
- B28D 1/14 . by boring or drilling (rotary drilling machines B23B; {tools for drilling machines B23B 51/00}; portabe percussive machines B25D; {rotary drilling machines for mining or quarrying E21C 1/00})
- B28D 1/143 .. {lens-drilling machines}
- B28D 1/146 .. {Tools therefor (drill bits for earth or rock drilling E21B 10/00)}
- B28D 1/16 . by turning
- B28D 1/18 . by milling, e.g. channelling by means of milling tools
- B28D 1/181 .. {using cutters loosely mounted on a turning tool support}
- B28D 1/183 .. {Hand tools, e.g. portable, motor driven}
- B28D 1/185 .. {for brick cleaning}
- B28D 1/186 .. {Tools therefor, e.g. having exchangeable cutter bits (B28D 1/181 takes precedence; bits for picks or pick-holders for mining or quarrying E21C 35/18)}
- B28D 1/188 ... {with exchangeable cutter bits or cutter segments}
- B28D 1/20 . by planing, e.g. channelling by means of planing tools
- B28D 1/22 . by cutting, e.g. incising
- B28D 1/221 .. {by thermic methods}
- B28D 1/222 .. {by pressing, e.g. presses}
- B28D 1/223 ... {Hand-held or hand-operated tools for shearing or cleaving}
- B28D 1/225 .. {for scoring or breaking, e.g. tiles}
- B28D 1/226 ... {with plural scoring tools}
- B28D 1/227 .. {for cutting tubes}
- B28D 1/228 .. {Hand-held or hand-operated tools (B28D 1/222, B28D 1/225 take precedence)}
- B28D 1/24 .. with cutting discs
- B28D 1/26 . by impact tools, e.g. by chisels or other tools having a cutting edge (portable percussive tools B25D)
- B28D 1/265 .. {Scabbling machines or scabbling tools}
- B28D 1/28 .. without cutting edge {e.g. chiseling machines}
- B28D 1/30 . to form contours, i.e. curved surfaces, irrespective of the method of working used (for artistic purposes B44B)
- B28D 1/32 . Methods and apparatus specially adapted for working materials which can easily be split, e.g. mica, slate, schist
- B28D 1/322 .. {Splitting of the working materials}
- B28D 1/325 .. {for making holes in easily splittable working materials}
- B28D 1/327 .. {for cutting or shearing easily splittable working materials}

B28D 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)
B28D 3/005	. {Tools therefor}
B28D 3/02	. Machines
B28D 3/04	.. for grooving rollers
B28D 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)
B28D 5/0005	. {by breaking, e.g. dicing}
B28D 5/0011	.. {with preliminary treatment, e.g. weakening by scoring}
B28D 5/0017	.. {using moving tools}
B28D 5/0023	... {rectilinearly}
B28D 5/0029	... {rotating}
B28D 5/0035 {cooperating with a straight breaking edge}
B28D 5/0041	.. {the workpiece being brought into contact with a suitably shaped rigid body which remains stationary during breaking}
B28D 5/0047	... {using fluid or gas pressure}
B28D 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)}
B28D 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)}
B28D 5/0064	.. {Devices for the automatic drive or the program control of the machines}
B28D 5/007	.. {Use, recovery or regeneration of abrasive mediums (for grinding and polishing in general B24B 57/00)}
B28D 5/0076	.. {for removing dust, e.g. by spraying liquids; for lubricating, cooling or cleaning tool or work}
B28D 5/0082	.. {for supporting, holding, feeding, conveying or discharging work}
B28D 5/0088	... {the supporting or holding device being angularly adjustable}
B28D 5/0094	... {the supporting or holding device being of the vacuum type}
B28D 5/02	. by rotary tools, e.g. drills {(B28D 5/0005 takes precedence)}
B28D 5/021	.. {by drilling}
B28D 5/022	.. {by cutting with discs or wheels}
B28D 5/023	... {with a cutting blade mounted on a carriage}
B28D 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}
B28D 5/025 {with the stock carried by a pivoted arm}
B28D 5/026	... {with a cutting blade carried by a movable arm, e.g. pivoted (B28D 5/023 and B28D 5/028 take precedence)}
B28D 5/027	... {with a cutting blade arranged underneath a stationary work table}
B28D 5/028	... {with a ring blade having an inside cutting edge}
B28D 5/029	... {with a plurality of cutting blades}

- B28D 5/04 . by tools other than rotary type, e.g. reciprocating tools {(B28D 5/0005 takes precedence)}
- B28D 5/042 . . {by cutting with blades or wires mounted in a reciprocating frame}
- B28D 5/045 . . {by cutting with wires or closed-loop blades (B28D 5/042 takes precedence)}
- B28D 5/047 . . {by ultrasonic cutting (using abrading substances or abrading tools subjected to a bouncing action by ultrasonic energy B24B 1/04)}

- B28D 7/00** **Accessories specially adapted for use with machines or devices of the preceding groups {(B28D 5/0058 takes precedence)}**
- B28D 7/005 . {Devices for the automatic drive or the program control of the machines}
- B28D 7/02 . for removing or laying dust, e.g. by spraying liquids; for cooling work
- B28D 7/04 . for supporting or holding work {or conveying or discharging work (B28D 1/047, B28D 5/0041, B28D 5/0052 take precedence)}
- B28D 7/043 . . {the supporting or holding device being angularly adjustable}
- B28D 7/046 . . {the supporting or holding device being of the vacuum type}