

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B24 GRINDING; POLISHING

B24B MACHINES, DEVICES, OR PROCESSES FOR GRINDING OR POLISHING (grinding of gear teeth B23F, of screw threads B23G 1/36; by electro-erosion B23H; abrasive or related blasting B24C; tools for grinding, buffing or sharpening B24D; polishing compositions C09G 1/00; abrasives C09K 3/14; electrolytic etching or polishing C25F 3/00; grinding arrangements for use on assembled railway tracks E01B 31/17); **DRESSING OR CONDITIONING OF ABRADING SURFACES; FEEDING OF GRINDING, POLISHING, OR LAPPING AGENTS [2]**

Note(s)

- In this subclass, the following term is used with the meaning indicated:
 - "polishing" means the smoothing of a surface, i.e. a surface improvement but no improvement of the dimensional accuracy as would occur in a "grinding" operation.
- Attention is drawn to Notes (1) and (2) following the title of subclass B23F.

Subclass index

GRINDING OR POLISHING PROCESSES NOT PARTICULAR TO SPECIFIC MACHINES, DEVICES OR WORK.....	1/00
GRINDING; GENERAL FEATURES OF GRINDING, POLISHING, OR FINISHING	
Grinding of surfaces with simple shapes.....	5/00, 7/00, 9/00, 11/00
Grinding of surfaces of special shape.....	3/00, 13/00-19/00
Grinding or polishing using abrasive belts.....	21/00
Portable machines.....	23/00
Other machines.....	25/00, 27/00
Component parts.....	41/00-47/00
Measuring, indicating, controlling; Safety.....	49/00, 51/00, 55/00
Dressing or conditioning of grinding tools; Feeding or applying grinding, polishing or lapping agents.....	53/00, 57/00
POLISHING OR FINISHING	
Polishing, burnishing.....	29/00, 39/00
by tumbling.....	31/00
Honing, superfinishing.....	33/00, 35/00
Lapping.....	37/00

Note(s)		3/00 Sharpening cutting edges, e.g. of tools; Accessories therefor, e.g. for holding the tools (non-abrasive sharpening devices for scythes, sickles, or the like A01D 3/00; sharpening devices designed as components of machines with cutters, see the relevant places for the machines, e.g. A01D 75/08, B26D 7/12; sharpening of saw teeth B23D 63/12; sharpening of files or rasps B23D 73/00; grinding of die-stocks or chasers B23G 1/36)
1/00 Processes of grinding or polishing; Use of auxiliary equipment in connection with such processes (processes characterised by the use of special machines or devices, see the relevant places for those machines or devices) [4]		
1/04	<ul style="list-style-type: none"> subjecting the grinding or polishing tools, the abrading or polishing medium or work to vibration, e.g. grinding with ultrasonic frequency (polishing or abrading surfaces on work by means of tumbling apparatus B24B 31/00, involving oscillating or vibrating containers B24B 31/06; superfinishing surfaces on work, e.g. by means of abrading blocks reciprocating with high frequency, B24B 35/00) [4] 	<ul style="list-style-type: none"> 3/02 • of milling cutters 3/04 • • of plain milling cutters 3/06 • • of face or end milling cutters or cutter heads, e.g. of shank type 3/08 • • of profile milling cutters, e.g. of disc type 3/10 • • of routers or engraving needles 3/12 • • of hobs 3/14 • • of mortise chain cutters 3/16 • of broaches 3/18 • of taps or reamers 3/20 • • Tapering or chamfering taps or reamers 3/22 • • Relief cutting of taps or reamers 3/24 • of drills (by fluting the shank B24B 19/04) 3/26 • • of the point of twist drills

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- 3/28 • • • by swivelling the drill around an axis angularly to the drill axis
- 3/30 • • • • and rotating the drill about its own axis
- 3/32 • • • for thinning the point
- 3/33 • • of drills for stone
- 3/34 • of turning or planing tools or tool bits, e.g. gear cutters (B24B 3/36 takes precedence)
- 3/36 • of cutting blades (B24B 3/58 takes precedence)
- 3/38 • • for planing wood, e.g. cutter blades
- 3/40 • • Processes or apparatus specially adapted for sharpening curved edges
- 3/42 • • helically bent, e.g. for lawn mowers
- 3/44 • • of scythes or sickles [2]
- 3/46 • • of disc blades
- 3/48 • • of razor blades or razors (by an abrasive block without mechanisms B24D)
- 3/50 • • • operated manually
- 3/52 • • of shear blades or scissors
- 3/54 • • of hand or table knives
- 3/55 • of knife bars for harvesting machines
- 3/56 • of slicing bands (B24B 3/58 takes precedence)
- 3/58 • of tools having scalloped cutting edges
- 3/60 • of tools not covered by the preceding subgroups

Grinding surfaces of particular forms

- 5/00 **Machines or devices designed for grinding surfaces of revolution on work, including those which also grind adjacent plane surfaces; Accessories therefor** (B24B 11/00-B24B 21/00 take precedence; honing machines or devices using abrading blocks performing axial and rotary movements superimposed on one another B24B 33/00) [2]
- 5/01 • for combined grinding of surfaces of revolution and of adjacent plane surfaces on work [4]
- 5/02 • involving centres or chucks for holding work
- 5/04 • • for grinding cylindrical surfaces externally (grinding combined cylindrical and conical surfaces B24B 5/14)
- 5/06 • • for grinding cylindrical surfaces internally (B24B 5/40 takes precedence)
- 5/08 • • • involving a vertical tool spindle
- 5/10 • • • involving a horizontal tool spindle
- 5/12 • • for grinding cylindrical surfaces both externally and internally with several grinding wheels
- 5/14 • • for grinding conical surfaces, e.g. of centres
- 5/16 • • for grinding peculiarly profiled surfaces, e.g. bulged
- 5/18 • involving centreless means for supporting, guiding, floating or rotating work (centreless turning B23B 5/08; centreless grinding of threads B23G 1/42) [2]
- 5/20 • • involving grooved abrading blocks
- 5/22 • • for grinding cylindrical surfaces, e.g. on bolts
- 5/24 • • for grinding conical surfaces
- 5/26 • • for grinding peculiarly profiled surfaces, e.g. bulged
- 5/28 • • for grinding outer surfaces concentrically to bores, involving additional centring means
- 5/30 • • Regulating-wheels; Equipment therefor
- 5/307 • • Means for supporting work [3]
- 5/313 • involving work-supporting means carrying several workpieces to be operated on in succession [3]
- 5/32 • • the work-supporting means being indexable [3]
- 5/35 • Accessories [3]

- 5/36 • Single-purpose machines or devices
- 5/37 • • for grinding rolls, e.g. barrel-shaped rolls [4]
- 5/38 • • for externally grinding travelling elongated stock, e.g. wire
- 5/40 • • for grinding tubes internally
- 5/42 • • for grinding crankshafts or crankpins
- 5/44 • • for grinding rims of vehicle wheels, e.g. for bicycles
- 5/46 • • for grinding railway car wheels
- 5/48 • • for grinding walls of very fine holes, e.g. in drawing-dies
- 5/50 • characterised by a special design with respect to properties of the material of non-metallic articles to be ground, e.g. strings (cutting profiles into the treads of tyres B29D 30/68)
- 7/00 **Machines or devices designed for grinding plane surfaces on work, including polishing plane glass surfaces; Accessories therefor** (B24B 21/00 takes precedence; honing of plane surfaces on work B24B 33/055) [4]
- 7/02 • involving a reciprocatingly-moved work-table (involving a reciprocatingly-moved grinding wheel in combination with a stationary work-table B24B 7/07) [4]
- 7/04 • involving a rotary work-table
- 7/06 • involving conveyer belts, a sequence of travelling work-tables or the like
- 7/07 • involving a stationary work-table [4]
- 7/08 • • having an abrasive wheel built in
- 7/10 • Single-purpose machines or devices (grinding tools or machines specially adapted for use on assembled railway track E01B 31/17)
- 7/12 • • for grinding travelling elongated stock, e.g. strip-shaped work [4]
- 7/13 • • • grinding while stock moves from coil to coil [4]
- 7/14 • • for grinding slideways (portable grinding machines designed for fastening on workpieces B24B 23/08) [4]
- 7/16 • • for grinding end faces, e.g. of gauges, rollers, nuts, piston rings (for combined grinding of surfaces of revolution and of adjacent plane surfaces on work B24B 5/01; for grinding edges or bevels on work B24B 9/00) [4]
- 7/17 • • • for simultaneously grinding opposite and parallel end faces, e.g. double disc grinders [4]
- 7/18 • • for grinding floorings, walls, ceilings or the like (machines or devices for cleaning floorings A47L 11/00, A47L 13/00)
- 7/19 • • for grinding plane decorative patterns [4]
- 7/20 • characterised by a special design with respect to properties of the material of non-metallic articles to be ground
- 7/22 • • for grinding inorganic material, e.g. stone, ceramics, porcelain
- 7/24 • • • for grinding or polishing glass
- 7/26 • • • • for simultaneously grinding or polishing opposite faces of continuously travelling sheets or bands of glass
- 7/28 • • for grinding wood
- 7/30 • • for grinding plastics [4]
- 9/00 **Machines or devices designed for grinding edges or bevels on work or for removing burrs; Accessories therefor** (B24B 21/00 takes precedence; for sharpening cutting edges on tools B24B 3/00; removing burrs by loose abrasive material B24B 31/00)

- 9/02 • characterised by a special design with respect to properties of materials specific to articles to be ground
- 9/04 • • of metal, e.g. skate blades
- 9/06 • • of non-metallic inorganic material, e.g. stone, ceramics, porcelain
- 9/08 • • • of glass
- 9/10 • • • • of plate glass
- 9/12 • • • • of hollow glassware, e.g. drinking glasses, preserve jars, television picture tube viewing panels
- 9/14 • • • • of optical work, e.g. lenses, prisms
- 9/16 • • • of diamonds, of jewels or the like; Diamond grinders' dops; Dop holders or tongs (for grinding sharp pointed diamonds or sapphires B24B 19/16) [4]
- 9/18 • • of wood
- 9/20 • • of plastics [4]
- 11/00 Machines or devices designed for grinding spherical surfaces or parts of spherical surfaces on work; Accessories therefor** (specially designed for optical surfaces B24B 13/00, for seat surfaces B24B 15/00)
- 11/02 • for grinding balls
- 11/04 • • involving grinding wheels
- 11/06 • • • acting by the front faces, e.g. of plane, grooved, or bevelled shape
- 11/08 • • • acting by the circumference
- 11/10 • • • of cup type
- 13/00 Machines or devices designed for grinding or polishing optical surfaces on lenses or surfaces of similar shape on other work; Accessories therefor** (edging optical work, e.g. lenses, prisms, B24B 9/14) [2]
- 13/005 • Blocking means, chucks or the like; Alignment devices [4]
- 13/01 • Specific tools, e.g. bowl-like; Production, dressing or fastening of these tools [4]
- 13/015 • of television picture tube viewing panels, headlight reflectors or the like [4]
- 13/02 • by means of tools with abrading surfaces corresponding in shape with the lenses to be made
- 13/04 • grinding of lenses involving grinding wheels controlled by gearing (B24B 13/06 takes precedence) [4]
- 13/06 • grinding of lenses, the tool or work being controlled by information carrying means, e.g. patterns, punched tapes, magnetic tapes [4]
- 15/00 Machines or devices designed for grinding seat surfaces; Accessories therefor** (for spherical surfaces in general B24B 11/00)
- 15/02 • in valve housings
- 15/03 • • using portable or mobile machines [4]
- 15/04 • on valve members
- 15/06 • on openings of bottles; on bottle stoppers or the like [4]
- 15/08 • for grinding co-operating seat surfaces by moving one over the other
- 17/00 Special adaptations of machines or devices for grinding controlled by patterns, drawings, magnetic tapes or the like** (machines or devices so-controlled for grinding the edges of lenses B24B 9/14; for grinding or polishing optical lens surfaces B24B 13/06; for grinding non-circular cross-sections B24B 19/08; for grinding trochoidal surfaces B24B 19/09; for grinding cams B24B 19/12; for grinding turbine blades or the like B24B 19/14; such control means *per se* B23Q 33/00, B23Q 35/00, G05); **Accessories therefor** [4]
- 17/02 • involving mechanical transmission means only
- 17/04 • involving optical auxiliary means, e.g. optical projection form grinding machines
- 17/06 • • combined with electrical transmission means, e.g. controlled by photoelectric cells
- 17/08 • involving fluid transmission means only
- 17/10 • involving electrical transmission means only, e.g. controlled by magnetic tape
- 19/00 Single purpose machines or devices for particular grinding operations not covered by any other main group** (tapering, chamfering or relief cutting of taps or reamers B24B 3/20, B24B 3/22; grinding screw threads B23G 1/36)
- 19/02 • for grinding grooves, e.g. on shafts, in casings, in tubes, homokinetic joint elements [4]
- 19/03 • • for grinding grooves in glass workpieces, e.g. decorative grooves [4]
- 19/04 • • for fluting drill shanks
- 19/06 • • for grinding races, e.g. roller races
- 19/08 • for grinding non-circular cross-sections, e.g. shafts of elliptical or polygonal cross-section
- 19/09 • • for grinding trochoidal surfaces, e.g. in rotor housings of Wankel engines [4]
- 19/10 • • for grinding pistons
- 19/11 • • for grinding the circumferential surface of rings, e.g. piston rings (grinding end faces B24B 7/16, B24B 7/17) [4]
- 19/12 • • for grinding cams or camshafts
- 19/14 • for grinding turbine blades, propeller blades or the like (using grinding belts B24B 21/16) [4]
- 19/16 • for grinding sharp-pointed workpieces, e.g. needles, pens, fish hooks, tweezers, record player styli (grinding bevels on diamonds or sapphires B24B 9/16; polishing of needles B24B 29/08) [4]
- 19/18 • • for grinding carding equipment, e.g. card-clothings (devices for sharpening card-clothings built in, or attachable to, carding machines D01G)
- 19/20 • for grinding dies (for grinding walls of very fine holes B24B 5/48)
- 19/22 • characterised by a special design with respect to properties of the material of non-metallic articles to be ground
- 19/24 • • of wood, e.g. furniture
- 19/26 • for grinding workpieces with arcuate surfaces, e.g. parts of car bodies, bumpers, magnetic recording heads (grinding of spherical surfaces in general B24B 11/00, of optical surfaces on lenses or surfaces of similar shape on other work B24B 13/00) [4]
- 19/28 • • for grinding shoes or linings of drum brakes (of brake drum hubs B24B 5/06; of brake discs B24B 7/17) [4]
- 21/00 Machines or devices using grinding or polishing belts** (for sharpening cutting edges of tools B24B 3/00; portable belt-grinding machines B24B 23/06); **Accessories therefor** [4]
- 21/02 • for grinding rotationally symmetrical surfaces

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- 21/04 • for grinding plane surfaces
- 21/06 • • involving members with limited contact area pressing the belt against the work, e.g. shoes sweeping across the whole area to be ground (B24B 21/12 takes precedence)
- 21/08 • • • Pressure shoes; Backing belts
- 21/10 • • involving a rigid member, e.g. pressure bar, table, pressing or supporting the belt over substantially its whole span
- 21/12 • • involving a contact wheel or roller pressing the belt against the work
- 21/14 • • • Contact wheels; Contact rollers; Belt supporting rolls [4]
- 21/16 • for grinding other surfaces of particular shape (single purpose machines for grinding cams or camshafts B24B 19/12) [4]
- 21/18 • Accessories
- 21/20 • • for controlling or adjusting the tracking or the tension of the grinding belt [4]
- 21/22 • • for producing a reciprocation of the grinding belt normal to its direction of movement [4]
- 23/00 Portable grinding machines, e.g. hand-guided; Accessories therefor** (B24B 7/18 takes precedence; for grinding seat surfaces B24B 15/00; having a flexible shaft B24B 27/027; grinders for cutting-off B24B 27/08; dust extraction equipment B24B 55/10; details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00) [4]
 - 23/02 • with rotating grinding tools; Accessories therefor
 - 23/03 • • the tool being driven in a combined movement [4]
 - 23/04 • with oscillating grinding tools; Accessories therefor [4]
 - 23/06 • with abrasive belts, e.g. with endless travelling belts; Accessories therefor [4]
 - 23/08 • Portable grinding machines designed for fastening on workpieces or other parts of particular section, e.g. for grinding commutators
- 25/00 Grinding machines of universal type**
- 27/00 Other grinding machines or devices**
 - 27/02 • Bench grinders [4]
 - 27/027 • having a flexible shaft [4]
 - 27/033 • for grinding a surface for cleaning purposes, e.g. for descaling or for grinding off flaws in the surface [4]
 - 27/04 • • Grinding machines or devices in which the grinding tool is supported on a swinging arm
 - 27/06 • Grinders for cutting-off
 - 27/08 • • being portable [4]
- Polishing surfaces; Finishing surfaces**
- 29/00 Machines or devices for polishing surfaces on work by means of tools made of soft or flexible material with or without the application of solid or liquid polishing agents** (machines or devices for grinding or polishing glass B24B 7/24, B24B 9/08, B24B 13/00; for grinding or polishing using belts B24B 21/00; polishing tools in general B24D 13/00) [4]
 - 29/02 • designed for particular workpieces [4]
 - 29/04 • • for rotationally symmetrical workpieces, e.g. ball-, cylinder- or cone-shaped workpieces [4]
 - 29/06 • • for elongated workpieces having uniform cross-section in one main direction [4]
- 29/08 • • • the cross-section being circular, e.g. tubes, wires, needles [4]
- 29/10 • • for table cutlery [4]
- 31/00 Machines or devices designed for polishing or abrading surfaces on work by means of tumbling apparatus or other apparatus in which the work or the abrasive material is loose; Accessories therefor** (machines or devices for grinding or polishing glass B24B 7/24, B24B 9/08, B24B 13/00; abrasive blasting machines B24C 3/26)
 - 31/02 • involving rotary barrels
 - 31/023 • • with tiltable axis [4]
 - 31/027 • • with additional oscillating movement [4]
 - 31/03 • • the workpieces being continuously-travelling [4]
 - 31/033 • • having several rotating or tumbling drums with parallel axes [4]
 - 31/037 • • having several rotating or tumbling drums with non-parallel axes [4]
 - 31/05 • involving a container formed as a conveyer belt [4]
 - 31/06 • involving oscillating or vibrating containers
 - 31/067 • • involving a bowl formed as a straight trough [4]
 - 31/073 • • involving a bowl being ring- or spiral-shaped [4]
 - 31/10 • involving other means for tumbling of work [4]
 - 31/104 • • involving a rotating bowl, in which a ring zone of abrasive powder is formed by centrifugal force [4]
 - 31/108 • • involving a sectioned bowl, one part of which, e.g. its wall, is stationary and the other part of which is moved, e.g. rotated [4]
 - 31/112 • • using magnetically consolidated grinding powder, moved relatively to the workpiece under the influence of pressure [4]
 - 31/116 • • using plastically deformable grinding compound, moved relatively to the workpiece under the influence of pressure [4]
 - 31/12 • Accessories; Protective equipment or safety devices; Installations for exhaustion of dust or for sound absorption specially designed for machines covered by group B24B 31/00 (in general B24B 55/00) [4]
 - 31/14 • • Abrading-bodies specially designed for tumbling apparatus, e.g. abrading-balls
 - 31/16 • • Means for separating the workpiece from the abrasive medium at the end of operation [4]
- 33/00 Honing machines or devices; Accessories therefor**
 - 33/02 • designed for working internal surfaces of revolution, e.g. of cylindrical or conical shapes
 - 33/04 • designed for working external surfaces of revolution
 - 33/05 • designed for working grooves, e.g. in gun barrels
 - 33/055 • designed for working plane surfaces [4]
 - 33/06 • with controlling or gauging equipment (gauging in general G01B; controlling in general G05)
 - 33/08 • Honing tools
 - 33/10 • Accessories
- 35/00 Machines or devices designed for superfinishing surfaces on work, i.e. by means of abrading blocks reciprocating with high frequency** (B24B 3/00 takes precedence)
- 37/00 Lapping machines or devices, i.e. requiring pulverulent abrading substances inserted between a lap of relatively soft but rigid material and the surface to be lapped; Accessories therefor** (B24B 3/00 takes precedence)
 - 37/02 • designed for working surfaces of revolution
 - 37/04 • designed for working plane surfaces

- 39/00 Burnishing machines or devices, i.e. requiring pressure members for compacting the surface zone** (modifying the physical properties or structure of metal by burnishing C21D 7/08, C22F 1/00); **Accessories therefor** (B24B 3/00 takes precedence)
- 39/02 • designed for working internal surfaces of revolution
- 39/04 • designed for working external surfaces of revolution
- 39/06 • designed for working plane surfaces [4]

Component parts of general applicability for grinding machines or devices

- 41/00 Component parts of grinding machines or devices, such as frames, beds, carriages or headstocks**
- 41/02 • Frames; Beds; Carriages
- 41/04 • Headstocks; Working-spindles; Features relating thereto
- 41/047 • • Grinding heads for working on plane surfaces [4]
- 41/053 • • • for grinding or polishing glass [4]
- 41/06 • Work supports, e.g. adjustable steadies
- 45/00 Means for securing grinding wheels on rotary arbors** (suppression of vibrations in systems F16F 15/00; testing static or dynamic balancing of machines G01M 1/00)

- 47/00 Drives or gearings for grinding machines or devices; Equipment therefor**
- 47/02 • for performing a reciprocating movement of carriages or work-tables
- 47/04 • • by mechanical gearing only
- 47/06 • • by liquid or gas pressure only
- 47/08 • • by mechanical gearing combined with fluid systems
- 47/10 • for rotating or reciprocating working-spindles carrying grinding wheels or workpieces
- 47/12 • • by mechanical gearing or electric power (B24B 47/16 takes precedence)
- 47/14 • • by liquid or gas pressure (B24B 47/16 takes precedence)
- 47/16 • • performing a reciprocating movement, e.g. during which the sense of rotation of the working-spindle is reversed
- 47/18 • • for rotating the spindle at a speed adaptable to wear of the grinding wheel
- 47/20 • relating to feed movement
- 47/22 • Equipment for exact control of the position of the grinding tool or work at the start of the grinding operation
- 47/25 • for compensating grinding wheel abrasion resulting from dressing [4]
- 47/26 • Accessories, e.g. stops
- 47/28 • Equipment for preventing backlash

Measuring; Indicating; Controlling

- 49/00 Measuring or gauging equipment for controlling the feed movement of the grinding tool or work; Arrangements of indicating or measuring equipment, e.g. for indicating the start of the grinding operation** (B24B 33/06 takes precedence; if applicable to other machine tools, B23Q 15/00-B23Q 17/00 take precedence; gauging instruments in general G01B)

- 49/02 • according to the instantaneous size and required size of the workpiece acted upon, the measuring or gauging being continuous or intermittent (B24B 49/12 takes precedence) [4]
- 49/03 • • according to the final size of the previously ground workpiece [4]
- 49/04 • • involving measurement of the workpiece at the place of grinding during grinding operation [4]
- 49/05 • • • including the measurement of a first workpiece already machined and of another workpiece being machined and to be matched with the first one [4]
- 49/06 • • requiring comparison of the workpiece with standard gauging plugs, rings or the like
- 49/08 • involving liquid or pneumatic means
- 49/10 • involving electrical means (B24B 49/02, B24B 49/08 take precedence)
- 49/12 • involving optical means
- 49/14 • taking regard of the temperature during grinding
- 49/16 • taking regard of the load
- 49/18 • taking regard of the presence of dressing tools

51/00 Arrangements for automatic control of a series of individual steps in grinding a workpiece

- 53/00 Devices or means for dressing or conditioning abrasive surfaces** (compensation for grinding wheel abrasion resulting from dressing B24B 47/25) [4]
- 53/007 • Cleaning of grinding wheels [4]
- 53/013 • Application of loose grinding agent as auxiliary tool during truing operation [4]
- 53/02 • of plane surfaces on abrasive tools
- 53/04 • of cylindrical or conical surfaces on abrasive tools or wheels [4]
- 53/047 • • equipped with one or more diamonds [4]
- 53/053 • • using a rotary dressing tool [4]
- 53/06 • of profiled abrasive wheels
- 53/065 • • having other than straight profiles, e.g. crowned (B24B 53/07 takes precedence) [4]
- 53/07 • • by means of forming tools having a shape complementary to that to be produced, e.g. blocks, profile rolls [4]
- 53/075 • • for workpieces having a grooved profile, e.g. gears, splined shafts, threads, worms (B24B 53/07 takes precedence) [4]
- 53/08 • • controlled by information means, e.g. patterns, templets, punched tapes or the like
- 53/085 • • • for workpieces having a grooved profile, e.g. gears, splined shafts, threads, worms (B24B 53/09 takes precedence) [4]
- 53/09 • • • having transfer elements formed as pantograph mechanism [4]
- 53/095 • Cooling or lubricating during dressing operation (cooling the grinding surfaces B24B 55/02) [4]
- 53/10 • of travelling flexible backings coated with abrasives; Cleaning of abrasive belts [4]
- 53/12 • Dressing tools; Holders therefor [4]
- 53/14 • • Dressing tools equipped with rotary rollers or cutters; Holders therefor [4]
- 55/00 Safety devices for grinding or polishing machines; Accessories fitted to grinding or polishing machines for keeping tools or parts of the machine in good working condition** (of general applicability for machine tools B23Q 11/00; in general F16P)

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- 55/02 • Equipment for cooling the grinding surfaces, including devices for feeding coolant (cooling or lubricating during dressing operation B24B 53/095; incorporated in grinding wheels B24D) [4]
- 55/03 • • designed as a complete equipment for feeding or clarifying coolant [4]
- 55/04 • Protective covers for the grinding wheel
- 55/05 • • specially designed for portable grinding machines [4]
- 55/06 • Dust extraction equipment on grinding or polishing machines (B24B 31/12 takes precedence)
- 55/08 • • specially designed for belt grinding machines [4]
- 55/10 • • specially designed for portable grinding machines, e.g. hand-guided [4]
- 55/12 • Devices for exhausting mist of oil or coolant; Devices for collecting or recovering materials resulting from grinding or polishing, e.g. of precious metals, precious stones, diamonds or the like [4]
- 57/00 **Devices for feeding, applying, grading or recovering grinding, polishing or lapping agents** (for abrasive blasting B24C 1/00, B24C 7/00) [4]
- 57/02 • for feeding of fluid, sprayed, pulverised, or liquefied grinding, polishing or lapping agents [4]
- 57/04 • for feeding of solid grinding, polishing or lapping agents [4]