

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B24 GRINDING; POLISHING

B24D TOOLS FOR GRINDING, BUFFING, OR SHARPENING (tools for grinding or polishing optical surfaces on lenses or surfaces of similar shape B24B 13/01; grinding heads B24B 41/00; manufacture of abrasive or friction articles or shaped materials containing macromolecular substances C08J 5/14; polishing compositions C09G 1/00; abrasives C09K 3/14)

Note(s)

1. This subclass covers grinding tools for working on any material.
2. Tools for grinding, buffing or sharpening, specially designed for a particular purpose, which purpose is provided for in a single other place, are classified in that place, e.g. B23F 21/02.

Subclass index

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|---|-------------------------|
| PHYSICAL FEATURES OR CONSTITUENTS OF ABRASIVE BODIES OR SHEETS..... | 3/00 |
| ABRASIVE WHEELS..... | 5/00, 7/00, 9/00, 13/00 |
| FLEXIBLE ABRASIVE MATERIALS..... | 11/00 |
| HAND TOOLS..... | 15/00 |
| MANUFACTURE..... | 18/00 |
| OTHER TOOLS..... | 99/00 |

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| 3/00 | Physical features of abrasive bodies, or sheets, e.g. abrasive surfaces of special nature; Abrasive bodies or sheets characterised by their constituents (composition of friction linings F16D 69/02) | 5/06 | • with inserted abrasive blocks, e.g. segmental (zonally graded B24D 5/14) |
| 3/02 | • the constituent being used as bonding agent | 5/08 | • • with reinforcing means |
| 3/04 | • • and being essentially inorganic | 5/10 | • with cooling provisions, e.g. with radial slots |
| 3/06 | • • • metallic | 5/12 | • Cut-off wheels |
| 3/08 | • • • • for close-grained structure, e.g. using metal with low melting point | 5/14 | • Zonally-graded wheels; Composite wheels comprising different abrasives |
| 3/10 | • • • • for porous or cellular structure, e.g. for use with diamonds as abrasives | 5/16 | • Bushings; Mountings |
| 3/12 | • • • water-setting, e.g. concrete | 7/00 | Bonded abrasive wheels, or wheels with inserted abrasive blocks, designed for acting otherwise than only by their periphery, e.g. by the front face; Bushings or mountings therefor |
| 3/14 | • • • ceramic, i.e. vitrified bondings | 7/02 | • Wheels in one piece |
| 3/16 | • • • • for close grained structure, i.e. of high density | 7/04 | • • with reinforcing means |
| 3/18 | • • • • for porous or cellular structure | 7/06 | • with inserted abrasive blocks, e.g. segmental (zonally-graded B24D 7/14) |
| 3/20 | • • and being essentially organic | 7/08 | • • with reinforcing means |
| 3/22 | • • • Rubbers | 7/10 | • with cooling provisions |
| 3/24 | • • • • for close-grained structure | 7/12 | • with apertures for inspecting the surface to be abraded |
| 3/26 | • • • • for porous or cellular structure | 7/14 | • Zonally-graded wheels; Composite wheels comprising different abrasives |
| 3/28 | • • • Resins | 7/16 | • Bushings; Mountings |
| 3/30 | • • • • for close-grained structure | 7/18 | • Wheels of special form (if specially designed for a particular purpose provided for in a single other class, that class takes precedence) |
| 3/32 | • • • • for porous or cellular structure | | |
| 3/34 | • characterised by additives enhancing special physical properties, e.g. wear resistance, electric conductivity, self-cleaning properties | | |

Bonded abrasive wheels

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|-------------|---|-------------|---|
| 5/00 | Bonded abrasive wheels, or wheels with inserted abrasive blocks, designed for acting only by their periphery; Bushings or mountings therefor | 9/00 | Wheels or drums supporting in exchangeable arrangement a layer of flexible abrasive material, e.g. sandpaper (wheels or drums as machine elements F16) |
| 5/02 | • Wheels in one piece | | |
| 5/04 | • • with reinforcing means | | |

B24D

- 9/02 • Expansible drums for carrying flexible material in tubular form, e.g. expanded by centrifugal force
- 9/04 • Rigid drums for carrying flexible material
- 9/06 • • able to be stripped-off from a built-in delivery spool
- 9/08 • Circular back-plates for carrying flexible material
- 9/10 • • with suction means for securing the material
- 11/00 Constructional features of flexible abrasive materials; Special features in the manufacture of such materials**
- 11/02 • Backings, e.g. foils, webs, mesh fabrics
- 11/04 • Zonally-graded surfaces
- 11/06 • Connecting the ends of materials, e.g. for making abrasive belts
- 11/08 • Equipment for after-treatment of the coated backings, e.g. for flexing the coating
- 13/00 Wheels having flexibly-acting working parts, e.g. buffing wheels; Mountings therefor**
- 13/02 • acting by their periphery
- 13/04 • • comprising a plurality of flaps or strips arranged around the axis
- 13/06 • • the flaps or strips being individually attached
- 13/08 • • comprising annular or circular sheets packed side by side
- 13/10 • • comprising assemblies of brushes
- 13/12 • • comprising assemblies of felted or spongy material, e.g. felt, steel wool, foamed latex
- 13/14 • acting by the front face
- 13/16 • • comprising pleated flaps or strips
- 13/18 • with cooling provisions
- 13/20 • Mountings for the wheels
- 15/00 Hand tools or other devices for non-rotary grinding, polishing, or stropping**
- 15/02 • rigid; with rigidly-supported operative surface
- 15/04 • resilient; with resiliently-mounted operative surface
- 15/06 • specially designed for sharpening cutting edges
- 15/08 • • of knives; of razors
- 15/10 • • of safety-razor blades (devices with mechanically-operated parts B24B 3/50)
- 18/00 Manufacture of grinding tools, e.g. wheels, not otherwise provided for [4]**
- 99/00 Subject matter not provided for in other groups of this subclass [2010.01]**