

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B24 GRINDING; POLISHING

**B24D TOOLS FOR GRINDING, BUFFING OR SHARPENING** (abrading-bodies specially designed for tumbling apparatus, e.g. abrading-balls B24B 31/14; honing tools B24B 33/08; lapping tools B24B 37/11)

#### Note(s) [4]

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

|   |                         |
|---|-------------------------|
| 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                   |

|             |  |             |   |
|-------------|--|-------------|---|
| <b>3/00</b> | <b>Physical features of abrasive bodies, or sheets, e.g. abrasive surfaces of special nature; Abrasive bodies or sheets characterised by their constituents [1, 2006.01]</b> | 5/04        | • • with reinforcing means [1, 2006.01]   |
| 3/02        | • the constituent being used as bonding agent [1, 2006.01]   | 5/06        | • with inserted abrasive blocks, e.g. segmental [1, 2006.01]  |
| 3/04        | • • and being essentially inorganic [1, 2006.01]   | 5/08        | • • with reinforcing means [1, 2006.01]   |
| 3/06        | • • • metallic [1, 2006.01]  | 5/10        | • with cooling provisions, e.g. with radial slots [1, 2006.01]  |
| 3/08        | • • • • for close-grained structure, e.g. using metal with low melting point [1, 2006.01]  | 5/12        | • Cut-off wheels [1, 2006.01]   |
| 3/10        | • • • • for porous or cellular structure, e.g. for use with diamonds as abrasives [1, 2006.01]   | 5/14        | • Zonally-graded wheels; Composite wheels comprising different abrasives [1, 2006.01]   |
| 3/12        | • • • water-setting, e.g. concrete [1, 2006.01]  | 5/16        | • Bushings; Mountings [1, 2006.01]  |
| 3/14        | • • • ceramic, i.e. vitrified bondings [1, 2006.01]  | <b>7/00</b> | <b>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 [1, 2006.01]</b> |
| 3/16        | • • • • for close grained structure, i.e. of high density [1, 2006.01]   | 7/02        | • Wheels in one piece [1, 2006.01]  |
| 3/18        | • • • • for porous or cellular structure [1, 2006.01]  | 7/04        | • • with reinforcing means [1, 2006.01]   |
| 3/20        | • • and being essentially organic [1, 2006.01]   | 7/06        | • with inserted abrasive blocks, e.g. segmental [1, 2006.01]  |
| 3/22        | • • • Rubbers [1, 2006.01]   | 7/08        | • • with reinforcing means [1, 2006.01]   |
| 3/24        | • • • • for close-grained structure [1, 2006.01]   | 7/10        | • with cooling provisions [1, 2006.01]  |
| 3/26        | • • • • for porous or cellular structure [1, 2006.01]  | 7/12        | • with apertures for inspecting the surface to be abraded [1, 2006.01]  |
| 3/28        | • • • Resins [1, 2006.01]  | 7/14        | • Zonally-graded wheels; Composite wheels comprising different abrasives [1, 2006.01]   |
| 3/30        | • • • • for close-grained structure [1, 2006.01]   | 7/16        | • Bushings; Mountings [1, 2006.01]  |
| 3/32        | • • • • for porous or cellular structure [1, 2006.01]  | 7/18        | • Wheels of special form [1, 2006.01]   |
| 3/34        | • characterised by additives enhancing special physical properties, e.g. wear resistance, electric conductivity, self-cleaning properties [1, 2006.01]                       |             |   |

#### Bonded abrasive wheels

|             |  |             |  |
|-------------|--|-------------|--|
| <b>5/00</b> | <b>Bonded abrasive wheels, or wheels with inserted abrasive blocks, designed for acting only by their periphery; Bushings or mountings therefor [1, 2006.01]</b> | <b>9/00</b> | <b>Wheels or drums supporting in exchangeable arrangement a layer of flexible abrasive material, e.g. sandpaper [1, 2006.01]</b> |
| 5/02        | • Wheels in one piece [1, 2006.01]   | 9/02        | • Expansible drums for carrying flexible material in tubular form, e.g. expanded by centrifugal force [1, 2006.01]               |

## B24D

- 9/04 • Rigid drums for carrying flexible material [1, 2006.01]
- 9/06 • • able to be stripped-off from a built-in delivery spool [1, 2006.01]
- 9/08 • Circular back-plates for carrying flexible material [1, 2006.01]
- 9/10 • • with suction means for securing the material [1, 2006.01]
- 11/00 Constructional features of flexible abrasive materials; Special features in the manufacture of such materials [1, 2006.01]**
- 11/02 • Backings, e.g. foils, webs, mesh fabrics [1, 2006.01]
- 11/04 • Zonally-graded surfaces [1, 2006.01]
- 11/06 • Connecting the ends of materials, e.g. for making abrasive belts [1, 2006.01]
- 11/08 • Equipment for after-treatment of the coated backings, e.g. for flexing the coating [1, 2006.01]
- 13/00 Wheels having flexibly-acting working parts, e.g. buffing wheels; Mountings therefor [1, 2006.01]**
- 13/02 • acting by their periphery [1, 2006.01]
- 13/04 • • comprising a plurality of flaps or strips arranged around the axis [1, 2006.01]
- 13/06 • • the flaps or strips being individually attached [1, 2006.01]
- 13/08 • • comprising annular or circular sheets packed side by side [1, 2006.01]
- 13/10 • • comprising assemblies of brushes [1, 2006.01]
- 13/12 • • comprising assemblies of felted or spongy material, e.g. felt, steel wool, foamed latex [1, 2006.01]
- 13/14 • acting by the front face [1, 2006.01]
- 13/16 • • comprising pleated flaps or strips [1, 2006.01]
- 13/18 • with cooling provisions [1, 2006.01]
- 13/20 • Mountings for the wheels [1, 2006.01]
- 15/00 Hand tools or other devices for non-rotary grinding, polishing, or stropping [1, 2006.01]**
- 15/02 • rigid; with rigidly-supported operative surface [1, 2006.01]
- 15/04 • resilient; with resiliently-mounted operative surface [1, 2006.01]
- 15/06 • specially designed for sharpening cutting edges [1, 2006.01]
- 15/08 • • of knives; of razors [1, 2006.01]
- 15/10 • • of safety-razor blades (devices with mechanically-operated parts B24B 3/50) [1, 2006.01]
- 18/00 Manufacture of grinding tools, e.g. wheels, not otherwise provided for [4, 2006.01]**
- 99/00 Subject matter not provided for in other groups of this subclass [2010.01]**