

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)

- (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. **[4]**

PHYSICAL FEATURES OR CONSTITUENTS OF ABRASIVE BODIES OR SHEETS.....	3/00	FLEXIBLE ABRASIVE MATERIALS.....	11/00
ABRASIVE WHEELS.....	5/00, 7/00, 9/00, 13/00	HAND TOOLS.....	15/00
		OTHER TOOLS	17/00
		MANUFACTURE	18/00

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)

- 3/02 . the constituent being used as bonding agent
- 3/04 . . and being essentially inorganic
- 3/06 . . . metallic
- 3/08 for close-grained structure, e.g. using metal with low melting point
- 3/10 for porous or cellular structure, e.g. for use with diamonds as abrasives
- 3/12 . . . water-setting, e.g. concrete
- 3/14 . . . ceramic, i.e. vitrified bondings
- 3/16 for close grained structure, i.e. of high density
- 3/18 for porous or cellular structure
- 3/20 . . and being essentially organic
- 3/22 . . . Rubbers
- 3/24 for close-grained structure
- 3/26 for porous or cellular structure
- 3/28 . . . Resins
- 3/30 for close-grained structure
- 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

5/00 Bonded abrasive wheels, or wheels with inserted abrasive blocks, designed for acting only by their periphery; Bushings or mountings therefor

- 5/02 . Wheels in one piece
- 5/04 . . with reinforcing means
- 5/06 . with inserted abrasive blocks, e.g. segmental (zonally graded B24D 5/14)
- 5/08 . . with reinforcing means
- 5/10 . with cooling provisions, e.g. with radial slots
- 5/12 . Cut-off wheels
- 5/14 . Zonally-graded wheels; Composite wheels comprising different abrasives
- 5/16 . Bushings; Mountings

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

- 7/02 . Wheels in one piece
- 7/04 . . with reinforcing means
- 7/06 . with inserted abrasive blocks, e.g. segmental (zonally-graded B24D 7/14)
- 7/08 . . with reinforcing means
- 7/10 . with cooling provisions
- 7/12 . with apertures for inspecting the surface to be abraded
- 7/14 . Zonally-graded wheels; Composite wheels comprising different abrasives
- 7/16 . Bushings; Mountings
- 7/18 . Wheels of special form (if specially designed for a particular purpose provided for in a single other class, that class takes precedence)

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)

- 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

B24D

- 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)

17/00 Abrasive or polishing tools not covered by groups B24D 3/00 B24D 15/00**18/00 Manufacture of grinding tools, e.g. wheels, not otherwise provided for [4]**