

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SHAPING

B24 GRINDING; POLISHING

(NOTE omitted)

B24C ABRASIVE OR RELATED BLASTING WITH PARTICULATE MATERIAL

NOTES

1. This subclass covers:
 - the use of a blast of any particles or pellets dispersed in air, gas, or liquid for the treatment of surfaces or cutting of materials, the particles usually being of abrasive material;
 - the equivalent use of a jet of particles or pellets projected or energised by means other than a stream of air
 - {the equivalent use of material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves}
2. In this subclass, the following terms are used with the meanings indicated:
 - "abrasive" covers any material used in the manner mentioned in Note (1) above;
 - "blast" covers any equivalent jet of material mentioned in Note (1) above

1/00	Methods for use of abrasive blasting for producing particular effects; Use of auxiliary equipment in connection with such methods	3/083	. . {Transfer or feeding devices; Accessories therefor}
1/003	. {using material which dissolves or changes phase after the treatment, e.g. ice, CO ₂ }	3/085	. . {the travelling workpieces being moved into different working positions during travelling}
1/006	. {using material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves}	3/086	. . . {whereby the workpieces are turned through a rotational arc of about 180 degrees}
1/02	. for sharpening or cleaning cutting tools, e.g. files	3/088	. . {using a vibratory transfer mechanism}
1/04	. for treating only selected parts of a surface, e.g. for carving stone or glass	3/10	. . for treating external surfaces
1/045	. . {for cutting (energy dissipating devices therefor B26F 3/008)}	3/12	. . . Apparatus using nozzles
1/06	. for producing matt surfaces, e.g. on plastic materials, on glass	3/14	. . . Apparatus using impellers
1/08	. for polishing surfaces, e.g. {smoothing a surface} by making use of liquid-borne abrasives	3/16	. . for treating internal surfaces
1/083	. . {Deburring}	3/18	. essentially provided with means for moving workpieces into different working positions (B24C 3/08 takes precedence)
1/086	. . {Descaling; Removing coating films}	3/20	. . the work being supported by turntables
1/10	. for compacting surfaces, e.g. shot-peening (for deforming sheet metal, tubes or profiles B21D 31/06 ; as a metallurgical treatment C21D 7/00 , C22F 1/00)	3/22	. . . Apparatus using nozzles
3/00	Abrasive blasting machines or devices; Plants	3/24	. . . Apparatus using impellers
3/02	. characterised by the arrangement of the component assemblies with respect to each other (B24C 3/08 , B24C 3/18 take precedence)	3/26	. . the work being supported by barrel cages, i.e. tumblers; Gimbal mountings therefor
3/04	. . stationary	3/263	. . . {using refrigerating means}
3/06	. . movable; portable	3/266	. . . {for continuously travelling workpieces}
3/062	. . . {for vertical surfaces}	3/28	. . . Apparatus using nozzles
3/065	. . . {with suction means for the abrasive and the waste material}	3/30	. . . Apparatus using impellers
3/067 {Self-contained units for floorings}	3/32	. designed for abrasive blasting of particular work, e.g. the internal surfaces of cylinder blocks (B24C 3/08 , B24C 3/18 take precedence)
3/08	. essentially adapted for abrasive blasting of travelling stock or travelling workpieces	3/322	. . {for electrical components}
3/081	. . {for travelling bundles of wires}	3/325	. . {for internal surfaces, e.g. of tubes}
		3/327	. . . {by an axially-moving flow of abrasive particles without passing a blast gun, impeller or the like along the internal surface (polishing or abrading surfaces using plastically deformable grinding compound, moved relatively to the workpiece under the influence of pressure B24B 31/116)}
		3/34	. . for cleaning sparking plugs

Accessories or equipment for abrasive blasting machines or devices

- 5/00 Devices or accessories for generating abrasive blasts**
 - 5/005 . {Vibratory devices, e.g. for generating abrasive blasts by ultrasonic vibrations ([sonic cleaning in general B08B 3/12](#))}
 - 5/02 . Blast guns, e.g. for generating high velocity abrasive fluid jets for cutting materials {([perforating by fluid jet B26F 1/26](#))}
 - 5/04 . . Nozzles therefor ([nozzles in general B05B](#))
 - 5/06 . Impeller wheels; Rotor blades therefor
 - 5/062 . . {Rotor blades or vanes; Locking means therefor}
 - 5/064 . . {One-piece wheels; Integral impeller units, e.g. made by casting}
 - 5/066 . . {Housings; Accessories therefor, e.g. liners}
 - 5/068 . . {Transferring the abrasive particles from the feeding means onto the propeller blades, e.g. using central impellers}
 - 5/08 . Devices for generating abrasive blasts non-mechanically, e.g. of metallic abrasives by means of a magnetic field {or by [detonating cords](#)}
- 7/00 Equipment for feeding abrasive material; Controlling the flowability, constitution, or other physical characteristics of abrasive blasts**
 - 7/0007 . {the abrasive material being fed in a liquid carrier}
 - 7/0015 . . {with control of feed parameters, e.g. feed rate of abrasive material or carrier}
 - 7/0023 . . . {of feed pressure}
 - 7/003 . . {with means for preventing clogging of the equipment}
 - 7/0038 . . {the blasting medium being a gaseous stream}
 - 7/0046 . {the abrasive material being fed in a gaseous carrier}
 - 7/0053 . . {with control of feed parameters, e.g. feed rate of abrasive material or carrier}
 - 7/0061 . . . {of feed pressure}
 - 7/0069 . . {with means for preventing clogging of the equipment or for preventing abrasive entering the airway}
 - 7/0076 . . {the blasting medium being a liquid stream}
 - 7/0084 . {the abrasive material being fed in a mixture of liquid and gas ([B24C 7/0038](#), [B24C 7/0076](#) take precedence; [blasting medium with additives B24C 11/005](#))}
 - 7/0092 . {the abrasive material being fed by mechanical means, e.g. by screw conveyors}
- 9/00 Appurtenances of abrasive blasting machines or devices, e.g. working chambers, arrangements for handling used abrasive material**
 - 9/003 . {Removing abrasive powder out of the blasting machine}
 - 9/006 . {Treatment of used abrasive material}
- 11/00 Selection of abrasive materials {or additives} for abrasive blasts ([polishing compositions C09G](#))**
 - 11/005 . {of additives, e.g. anti-corrosive or disinfecting agents in solid, liquid or gaseous form}