CPC COOPERATIVE PATENT CLASSIFICATION

B02C CRUSHING, PULVERISING, OR DISINTEGRATING IN GENERAL; MILLING GRAIN ({household tools and machines for pulverising foodstuffs, e.g. coffee and spice mills A47J 42/00; pharmaceutical mortars A61J 3/02; mechanical processing of refuse and garbage B03B 9/06; dressing mould materials by grinding B22C 5/04}; obtaining metallic powder by crushing, grinding or milling B22F 9/04; {recovery of plastics by desintegration B29B 17/00; crushing raw materials in starch making C08B 30/02; beaters for papermaking D21D 1/02; crushing devices specially for transport in mines E21F 13/002; slag crushing devices F23J 1/00; fuel milling devices in combustion apparatus F23K 1/00; household devices for crushing coal F24B 15/02; ice desintegrating devices F25C 5/02})

B02C 1/00 **Crushing or disintegrating by reciprocating members**

B02C 1/005 . {hydraulically or pneumatically operated}

B02C 1/02 . Jaw crushers or pulverisers

B02C 1/025 . . {Jaw clearance or overload control}

B02C 1/04 . . with single-acting jaws

B02C 1/043 . . . {with cooperating single acting jaws}

B02C 1/046 . . . {of the plural stage type}

B02C 1/06 . . with double-acting jaws

B02C 1/08 . . with jaws coacting with rotating roller

B02C 1/10 . . Shape or construction of jaws

B02C 1/12 . Mills with non-rotating spiked members

B02C 1/14 . Stamping mills

B02C 2/00 **Crushing or disintegrating by gyratory or cone crushers {**(with non-coaxial discs with intersecting axes B02C 7/005)**}**

B02C 2002/002 . {the bowl being a driven element for providing a crushing effect}

B02C 2/005 . {Lining}

B02C 2/007 . {Feeding devices}

B02C 2/02 . eccentrically moved

B02C 2/04 . . with vertical axis

B02C 2/042 . . . {Moved by an eccentric weight}

B02C 2/045 . . . {and with bowl adjusting or controlling mechanisms (B02C 2/042, B02C 2/06 take precedence)}

B02C 2/047 . . . {and with head adjusting or controlling mechanisms (B02C 2/042, B02C 2/06 take precedence)}

B02C 2/06 . . . and with top bearing {(B02C 2/042 takes precedence)}

B02C 2/08 . . with horizontal axis

B02C 2/10 . concentrically moved; Bell crushers

B02C 4/00 **Crushing or disintegrating by roller mills** (with milling members in the form of rollers or balls co-operating with rings or discs B02C 15/00; roller mills or roll refiners exclusively for chocolate A23G 1/10, A23G 1/12)

B02C 4/02 . with two or more rollers

B02C 4/04 . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids

B02C 4/06 . . specially adapted for milling grain

B02C 4/08 . . with co-operating corrugated or toothed crushing-rollers

B02C 4/10 . with a roller co-operating with a stationary member

B02C 4/12 . . in the form of a plate

B02C 4/14 . . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids

B02C 4/16 . . . specially adapted for milling grain

B02C 4/18 . . in the form of a bar

B02C 4/20 . . . wherein the roller is corrugated or toothed

B02C 4/22 . . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids

B02C 4/24 . . . specially adapted for milling grain

B02C 4/26 . . in the form of a grid or grating

B02C 4/28 . Details

B02C 4/283 . . {Lateral sealing shields}

B02C 4/286 . . {Feeding devices}

B02C 4/30 . . Shape or construction of rollers

B02C 4/305 . . . {Wear resistant rollers}

B02C 4/32 . . Adjusting, applying pressure to, or controlling the distance between, milling members

B02C 4/34 . . . in mills wherein a roller co-operates with a stationary member

B02C 4/36 . . . in mills specially adapted for paste-like materials

B02C 4/38 . . . in grain mills

B02C 4/40 . . Detachers, e.g. scrapers

B02C 4/42 . . Driving mechanisms; Roller speed control

B02C 4/423 . . . {with vibrating or oscillating mechanisms}

B02C 4/426 . . . {Torque counterbalancing mechanisms}

B02C 4/44 . . Cooling or heating rollers or bars

B02C 7/00 **Crushing or disintegrating by disc mills** (apparatus specially adapted for manufacture or treatment of cocoa or cocoa products exclusively A23G 1/04)

B02C 7/005 . {Crushers with non-coaxial toothed discs with intersecting axes}

B02C 7/02 . with coaxial discs

B02C 7/04 . . with concentric circles of intermeshing teeth

B02C 7/06 . . with horizontal axis (B02C 7/04 takes precedence)

B02C 7/08 . . with vertical axis (B02C 7/04 takes precedence)

B02C 7/10	. with eccentric discs
B02C 7/11	. Details
B02C 7/12	. . Shape or construction of discs
B02C 7/13	. . . for grain mills
B02C 7/14	. . Adjusting, applying pressure to, or controlling distance between, discs
B02C 7/16	. . Driving mechanisms
B02C 7/17	. . Cooling or heating of discs
B02C 7/175	. Disc mills specially adapted for paste-like material, e.g. paint, chocolate, colloids
B02C 7/18	. Disc mills specially adapted for grain
B02C 7/182	. . {with horizontal axis}
B02C 7/184	. . {with vertical axis}
B02C 7/186	. . {Adjusting, applying pressure to, or controlling distance between, discs}
B02C 7/188	. . {Driving mechanisms}
B02C 9/00	**Other milling methods or mills specially adapted for grain**
B02C 9/02	. Cutting or splitting grain
B02C 9/04	. Systems or sequences of operations; Plant
B02C 11/00	**Other auxiliary devices or accessories specially adapted for grain mills**
B02C 11/02	. Breaking up amassed particles, e.g. flakes
B02C 11/04	. Feeding devices
B02C 11/06	. Arrangements for preventing fire or explosion (methods for preventing or extinguishing fires, devices therefor A62C)
B02C 11/08	. Cooling, heating, ventilating, conditioning with respect to temperature or water content (conditioning grain before milling B02B 1/08; air-conditioning or ventilating in general F24F)
B02C 13/00	**Disintegrating by mills having rotary beater elements; {Hammer mills}**
B02C 13/02	. with horizontal rotor shaft (with axial flow B02C 13/10)
B02C 13/04	. . with beaters hinged to the rotor; Hammer mills
B02C 13/06	. . with beaters rigidly connected to the rotor
B02C 13/08	. . . and acting as a fan
B02C 13/09	. . . and throwing the material against an anvil or impact plate {(with vertical axis B02C 13/1807)}
B02C 13/095	. . . . {with an adjustable anvil or impact plate}
B02C 13/10	. with horizontal rotor shaft and axial flow
B02C 13/12	. . with vortex chamber
B02C 13/13	. with horizontal rotor shaft and combined with sifting devices, e.g. for making powdered fuel
B02C 13/14	. with vertical rotor shaft, e.g. combined with sifting devices
B02C 2013/145	. . {with fast rotating vanes generating vortexes effecting material on material impact}

B02C 13/16 . . with beaters hinged to the rotor

B02C 13/18 . . with beaters rigidly connected to the rotor

B02C 13/1807 . . . {the material to be crushed being thrown against an anvil or impact plate (with horizontal axis B02C 13/09; centrifugal acceleration of material through radially extending channels B02C 19/0025; centrifugal acceleration of material by means of an open top rotor B02C 19/0031)}

B02C 13/1814 . . . . {by means of beater or impeller elements fixed on top of a disc type rotor}

B02C 13/1821 . . . . . {the beater or impeller elements being rotatably fixed around their own axis}

B02C 13/1828 . . . . . {with dead bed protected beater or impeller elements}

B02C 13/1835 . . . . {by means of beater or impeller elements fixed in between an upper and lower rotor disc}

B02C 13/1842 . . . . . {with dead bed protected beater or impeller elements}

B02C 13/185 . . . . {Construction or shape of anvil or impact plate}

B02C 2013/1857 . . . . {rotating coaxially around the rotor shaft}

B02C 2013/1864 . . . . {rotatable around its own axis}

B02C 2013/1871 . . . . {vertically adjustable}

B02C 2013/1878 . . . . {radially adjustable}

B02C 2013/1885 . . . . {of dead bed type}

B02C 2013/1892 . . . . {cooled or heated}

B02C 13/20 . with two or more co-operating rotors

B02C 13/205 . . {arranged concentrically}

B02C 13/22 . with intermeshing pins; {Pin Disk Mills}

B02C 13/24 . . arranged around a vertical axis

B02C 13/26 . Details

B02C 13/28 . . Shape or construction of beater elements

B02C 13/2804 . . . {the beater elements being rigidly connected to the rotor}

B02C 2013/2808 . . . {the beater elements are attached to disks mounted on a shaft}

B02C 2013/2812 . . . {the beater elements are attached to a hollow cylindrical rotor}

B02C 2013/2816 . . . {of chain, rope or cable type}

B02C 13/282 . . Shape or inner surface of mill-housings

B02C 2013/2825 . . . {with fastening means for fixing lining members to the inner surface of mill-housings}

B02C 13/284 . . . Built-in screens

B02C 13/286 . . Feeding or discharge

B02C 2013/28609 . . . {Discharge means}

B02C 2013/28618 . . . {Feeding means}

B02C 2013/28627 . . . . {of ram or pusher type}

B02C 2013/28636 . . . . {of conveyor belt type}

B02C 2013/28645 . . . . {of conveyor belt and cooperating roller type}

B02C 2013/28654 . . . . {of screw type}

B02C 2013/28663 . . . . {using rollers}
B02C 2013/28672 . . . . {Feed chute arrangements}
B02C 2013/28681 . . . . {Feed distributor plate for vertical mill}
B02C 2013/2869 . . . {Arrangements of feed and discharge means in relation to each other}
B02C 13/288 . . Ventilating, or influencing air circulation
B02C 2013/29 . . {devices for manipulating beater elements}
B02C 13/30 . . Driving mechanisms
B02C 13/31 . . Safety devices or measures

B02C 15/00 **Disintegrating by milling members in the form of rollers or balls co-operating with rings or discs {**(high-speed drum mills B02C 19/11)**}**
B02C 15/001 . {Air flow directing means positioned on the periphery of the horizontally rotating milling surface}
B02C 2015/002 . {combined with a classifier}
B02C 15/003 . {Shape or construction of discs or rings}
B02C 15/004 . {Shape or construction of rollers or balls}
B02C 15/005 . . {Rollers or balls of composite construction}
B02C 15/006 . {Ring or disc drive gear arrangement}
B02C 15/007 . {Mills with rollers pressed against a rotary horizontal disc (with pendularly mounted rollers B02C 15/04)}
B02C 2015/008 . {Roller drive arrangements}
B02C 15/02 . Centrifugal pendulum-type mills
B02C 15/04 . Mills with pressed pendularly-mounted rollers, e.g. spring pressed
B02C 15/045 . . {pressed against the interior of a ring rotating in a vertical plane}
B02C 15/06 . Mills with rollers forced against the interior of a rotary ring, e.g. under spring action (B02C 15/04 takes precedence)
B02C 15/08 . Mills with balls or rollers centrifugally forced against the inner surface of a ring, the balls or rollers of which are driven by a centrally arranged member (B02C 15/02 takes precedence)
B02C 15/10 . Mills with balls or rollers centrifugally forced against the inner surface of a ring, the balls or rollers of which are driven by other means than a centrally-arranged member
B02C 15/12 . Mills with at least two discs {or rings} and interposed balls or rollers mounted like ball or roller bearings
B02C 15/123 . . {with rings and interposed rollers}
B02C 2015/126 . . {of the plural stage type}
B02C 15/14 . Edge runners, e.g. Chile mills
B02C 2015/143 . . {each runner pivot carrying more than one runner}
B02C 2015/146 . . {Step-shaped runners}
B02C 15/16 . with milling members essentially having different peripheral speeds and in the form of a hollow cylinder or cone and an internal roller or cone

B02C 17/00	**Disintegrating by tumbling mills, i.e. mills having a container charged with the material to be disintegrated with or without special disintegrating members such as pebbles or balls** (high-speed drum mills B02C 19/11; {drums for polishing or grinding B24B})
B02C 17/002	. {with rotary cutting or beating elements}
B02C 17/005	. {the charge being turned over by magnetic forces}
B02C 17/007	. {specially adapted for disintegrating refuse}
B02C 17/02	. with perforated container
B02C 17/04	. with unperforated container
B02C 17/06	. . with several compartments
B02C 2017/065	. . . {with several compartments in the form of multiwell blocks}
B02C 17/07	. . . in radial arrangement
B02C 17/08	. . with containers performing a planetary movement
B02C 17/10	. with one or a few disintegrating members arranged in the container
B02C 17/14	. Mills in which the charge to be ground is turned over by movements of the container other than by rotating, e.g. by swinging, vibrating, tilting {(mills provided with vibrators in general B02C 19/16)}
B02C 17/16	. Mills in which a fixed container houses stirring means tumbling the charge
B02C 17/161	. . {Arrangements for separating milling media and ground material}
B02C 17/163	. . {Stirring means}
B02C 2017/165	. . {with stirring means comprising more than one agitator}
B02C 17/166	. . {of the annular gap type}
B02C 17/168	. . {with a basket media milling device arranged in or on the container, involving therein a circulatory flow of the material to be milled}
B02C 17/18	. Details
B02C 17/1805	. . {Monitoring devices for tumbling mills}
B02C 17/181	. . {Bearings specially adapted for tumbling mills}
B02C 17/1815	. . {Cooling or heating devices}
B02C 17/182	. . {Lids}
B02C 17/1825	. . {Lifting devices (lifting devices associated with the lining for containers B02C 17/22)}
B02C 17/183	. . {Feeding or discharging devices}
B02C 17/1835	. . . {Discharging devices combined with sorting or separating of material (B02C 17/186 takes precedence)}
B02C 17/184	. . . . {with separator arranged in discharge path of crushing zone}
B02C 17/1845	. . . . . {with return of oversize material to crushing zone}
B02C 17/185	. . . . {with more than one separator}
B02C 17/1855	. . . . {with separator defining termination of crushing zone, e.g. screen denying egress of oversize material}
B02C 17/186	. . . {Adding fluid, other than for crushing by fluid energy}
B02C 17/1865	. . . . {after crushing}
B02C 17/187	. . . . . {with recirculation of material to crushing zone}

B02C 17/1875 . . . . {passing gas through crushing zone}
B02C 17/188 . . . . . {characterised by point of gas entry or exit or by gas flow path}
B02C 17/1885 . . . . . {the applied gas acting to effect material separation (B02C 17/1895 takes precedence)}
B02C 17/189 . . . . . {with return of oversize material to crushing zone (B02C 17/1895 takes precedence)}
B02C 17/1895 . . . . . {gas being recirculated to crushing zone}
B02C 17/20 . . Disintegrating members
B02C 17/205 . . . {Adding disintegrating members to the tumbling mill}
B02C 17/22 . . Lining for containers
B02C 17/225 . . . {using rubber or elastomeric material}
B02C 17/24 . . Driving mechanisms

B02C 18/00 **Disintegrating by knives or other cutting or tearing members which chop material into fragments {**(tree stump comminutors A01G 23/067)**}**
B02C 18/0007 . {specially adapted for disintegrating documents}
B02C 2018/0015 . . {for disintegrating CDs, DVDs and/or credit cards}
B02C 2018/0023 . . {Switching devices}
B02C 2018/003 . . {Removing clips, pins or staples before disintegrating}
B02C 2018/0038 . . {Motor drives}
B02C 2018/0046 . . {Shape or construction of frames, housings or casings}
B02C 2018/0053 . . {hand-operated}
B02C 2018/0061 . . {with compacting devices for the disintegrated material}
B02C 2018/0069 . . {with stripping devices}
B02C 18/0076 . {with cutting or tearing members fixed on endless flexible members (without cutting or tearing members B02C 19/0006)}
B02C 18/0084 . {specially adapted for disintegrating garbage, waste or sewage}
B02C 18/0092 . . {for waste water or for garbage}
B02C 18/02 . with reciprocating knives
B02C 18/04 . . Details
B02C 18/06 . with rotating knives
B02C 18/062 . . {with rotor elements extending axially in close radial proximity of a concentrically arranged slotted or perforated ring}
B02C 18/065 . . {within rotatable bowls, e.g. meat cutters}
B02C 18/067 . . {Tub-grinders}
B02C 18/08 . . within vertical containers {(B02C 18/062, B02C 18/065 take precedence)}
B02C 18/083 . . . {with a disc rotor having generally radially extending slots or openings bordered with cutting knives}
B02C 18/086 . . . {specially adapted for disintegrating plastics, e.g. cinematographic films (for plastic bottles B02C 19/0093, disintegrating plastics B29B 17/00)}
B02C 18/10 . . . with drive arranged above container {(B02C 18/083 takes precedence)}
B02C 18/12 . . . with drive arranged below container {(B02C 18/083 takes precedence)}

B02C 18/14 . . within horizontal containers {(B02C 18/062, B02C 18/065 take precedence)}
B02C 18/141 . . . {with axial flow}
B02C 18/142 . . . {with two or more inter-engaging rotatable cutter assemblies}
B02C 18/143 . . . {with a disc rotor having generally radially extending slots or openings bordered with cutting knives}
B02C 18/144 . . . {with axially elongated knives}
B02C 18/145 . . . {with knives spaced axially and circumferentially on the periphery of a cylindrical rotor unit}
B02C 18/146 . . . {with a rotor comprising a plurality of axially contiguous disc-like segments each having at least one radially extending cutting element}
B02C 2018/147 . . . {of the plural stage type}
B02C 18/148 . . . {specially adapted for disintegrating plastics, e.g. cinematographic films (for plastic bottles B02C 19/0093, disintegrating plastics B29B 17/00)}
B02C 18/16 . . Details
B02C 2018/162 . . . {Shape or inner surface of shredder-housings}
B02C 2018/164 . . . {Prevention of jamming and/or overload}
B02C 2018/166 . . . {Lubricating the knives of the cutting mechanisms}
B02C 2018/168 . . . {User safety devices or measures in shredders}
B02C 18/18 . . . Knives; Mountings thereof
B02C 18/182 . . . . {Disc-shaped knives}
B02C 18/184 . . . . . {with peripherally arranged demountable cutting tips or elements}
B02C 18/186 . . . . {Axially elongated knives}
B02C 2018/188 . . . . {Stationary counter-knives; Mountings thereof}
B02C 18/20 . . . . Sickle-shaped knives
B02C 18/22 . . . Feed or discharge means
B02C 2018/2208 . . . . {for weblike material}
B02C 18/2216 . . . . {Discharge means}
B02C 18/2225 . . . . {Feed means}
B02C 18/2233 . . . . . {of ram or pusher type}
B02C 18/2241 . . . . . {of conveyor belt type (B02C 18/225 takes precedence)}
B02C 18/225 . . . . . {of conveyor belt and cooperating roller type}
B02C 18/2258 . . . . . {of screw type}
B02C 18/2266 . . . . . {of revolving drum type}
B02C 18/2275 . . . . . {using a rotating arm}
B02C 18/2283 . . . . . {using rollers (B02C 18/225 takes precedence)}
B02C 18/2291 . . . . . {Feed chute arrangements}
B02C 18/24 . . . Drives
B02C 18/26 . with knives which both reciprocate and rotate
B02C 18/28 . with spiked cylinders
B02C 18/30 . Mincing machines with perforated discs and feeding worms
B02C 18/301 . . {with horizontal axis}

B02C 18/302 . . . {with a knife-perforated disc unit}
B02C 18/304 . . . {with several axially aligned knife-perforated disc units}
B02C 18/305 . . {Details}
B02C 2018/307 . . . {Cooling arrangements in mincing machines}
B02C 2018/308 . . {with separating devices for hard material, e.g. bone}
B02C 18/32 . . with sharpening devices
B02C 18/34 . . with means for cleaning the perforated discs
B02C 18/36 . . Knives or perforated discs
B02C 18/362 . . . {Knives}
B02C 18/365 . . . {Perforated discs}
B02C 2018/367 . . . {Resiliently mounted knives or discs}
B02C 18/38 . . Drives

B02C 19/00 **Other disintegrating devices or methods** (for grain B02C 9/00)
B02C 19/0006 . {Crushing by endless flexible members (with cutting or tearing members B02C 18/0076)}
B02C 19/0012 . {Devices for disintegrating materials by collision of these materials against a breaking surface or breaking body and/or by friction between the material particles (also for grain)}
B02C 19/0018 . . {using a rotor accelerating the materials centrifugally against a circumferential breaking surface (rotors with beater elements B02C 13/09, B02C 13/1807)}
B02C 19/0025 . . . {by means of a rotor with radially extending channels}
B02C 19/0031 . . . {by means of an open top rotor}
B02C 19/0037 . . . . {with concentrically arranged open top rotors}
B02C 19/0043 . . {the materials to be pulverised being projected against a breaking surface or breaking body by a pressurised fluid (jet mills B02C 19/06)}
B02C 19/005 . . {the materials to be pulverised being disintegrated by collision of, or friction between, the material particles (jet mills B02C 19/06)}
B02C 19/0056 . {specially adapted for specific materials not otherwise provided for}
B02C 19/0062 . . {specially adapted for shredding scrap metal, e.g. automobile bodies}
B02C 19/0068 . . {specially adapted for breaking-up fluorescent tubes}
B02C 19/0075 . . {specially adapted for desintegrating medical waste (disposal of medical waste B09B 3/0075, sterilisation of refuse A61L 11/00)}
B02C 19/0081 . . {specially adapted for breaking-up bottles}
B02C 19/0087 . . . {for glass bottles}
B02C 19/0093 . . . {for plastic bottles}
B02C 19/06 . Jet mills
B02C 19/061 . . {of the cylindrical type (B02C 19/068 takes precedence)}
B02C 19/063 . . {of the toroidal type (B02C 19/068 takes precedence)}
B02C 19/065 . . {of the opposed-jet type (B02C 19/068 takes precedence)}
B02C 19/066 . . {of the jet-anvil type (B02C 19/068 takes precedence)}
B02C 19/068 . . {of the fluidised-bed type}

B02C 19/08 . Pestle and mortar

B02C 19/10 . Mills in which a friction block is towed along the surface of a cylindrical or annular member

B02C 19/11 . High-speed drum mills (for separating B04B)

B02C 19/16 . Mills provided with vibrators ({roller mills B02C 4/423}; tumbling mills B02C 17/14)

B02C 19/18 . Use of auxiliary physical effects, e.g. ultrasonics, irradiation, for disintegrating

B02C 2019/183 . . {Crushing by discharge of high electrical energy}

B02C 19/186 . . {Use of cold or heat for disintegrating (B02C 4/44, B02C 7/17, B02C 11/08 take precedence)}

B02C 19/20 . Disintegrating by grating {(domestic food grating devices A47J 43/25)}

B02C 19/22 . Crushing mills with screw-shaped crushing means

B02C 21/00 **Disintegrating plant with or without drying of the material** (for grain B02C 9/04)

B02C 21/002 . {using a combination of a roller mill and a drum mill}

B02C 21/005 . . {the roller mill having cooperating rollers}

B02C 21/007 . {using a combination of two or more drum or tube mills}

B02C 21/02 . Transportable disintegrating plant

B02C 2021/023 . . {for disintegrating material on the surface of the ground}

B02C 21/026 . . {self-propelled}

B02C 23/00 **Auxiliary methods or auxiliary devices or accessories specially adapted for crushing or disintegrating not provided for in preceding groups or not specially adapted to apparatus covered by a single preceding group** ({specially adapted for grain mills B02C 11/00;} separating or sorting in general B03, B04, B07)

B02C 23/02 . Feeding devices ({for grain mills B02C 11/04; for roller mills B02C 4/286}; transport devices in general B65G)

B02C 23/04 . Safety devices (in general F16P; {for rotary mills B02C 13/31})

B02C 23/06 . Selection or use of additives to aid disintegrating

B02C 23/08 . Separating or sorting of material, associated with crushing or disintegrating (B02C 23/18 takes precedence; {beater mills combined with sifting devices B02C 13/13, B02C 13/14; for tumbling mills B02C 17/1835})

B02C 23/10 . . with separator arranged in discharge path of crushing or disintegrating zone

B02C 23/12 . . . with return of oversize material to crushing or disintegrating zone

B02C 23/14 . . with more than one separator

B02C 23/16 . . with separator defining termination of crushing or disintegrating zone, e.g. screen denying egress of oversize material

B02C 2023/165 . . . {Screen denying egress of oversize material}

B02C 23/18 . Adding fluid, other than for crushing or disintegrating by fluid energy ({for tumbling mills B02C 17/186;} feeding devices B02C 23/02)

B02C 23/20 . . after crushing or disintegrating

B02C 23/22 . . . with recirculation of material to crushing or disintegrating zone

B02C 23/24	. . Passing gas through crushing or disintegrating zone ({B02C 15/001}, B02C 23/38, B02C 23/40 take precedence)
B02C 23/26	. . . characterised by point of gas entry or exit or by gas flow path
B02C 23/28	. . . gas moving means being integral with, or attached to, crushing or disintegrating element
B02C 23/30	. . . the applied gas acting to effect material separation (B02C 23/34 takes precedence)
B02C 23/32	. . . with return of oversize material to crushing or disintegrating zone (B02C 23/34 takes precedence)
B02C 23/34	. . . gas being recirculated to crushing or disintegrating zone
B02C 23/36	. . the crushing or disintegrating zone being submerged in liquid
B02C 23/38	. . in apparatus having multiple crushing or disintegrating zones
B02C 23/40	. . with more than one means for adding fluid to the material being crushed or disintegrated
B02C 25/00	**Control arrangements specially adapted for crushing or disintegrating**
B02C 2201/00	**Codes relating to disintegrating devices adapted for specific materials**
B02C 2201/02	. for reinforced concrete
B02C 2201/04	. for used tyres
B02C 2201/06	. for garbage, waste or sewage
B02C 2201/063	. . for waste water or sewage
B02C 2201/066	. . for garden waste
B02C 2210/00	**Codes relating to different types of disintegrating devices**
B02C 2210/01	. Indication of wear on beaters, knives, rollers, anvils, linings and the like
B02C 2210/02	. Features for generally used wear parts on beaters, knives, rollers, anvils, linings and the like