

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SEPARATING; MIXING

B02 CRUSHING, PULVERISING, OR DISINTEGRATING; PREPARATORY TREATMENT OF GRAIN FOR MILLING

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 disintegrating [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 disintegrating devices [F25C 5/02](#)})

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| 1/00 | Crushing or disintegrating by reciprocating members | 2/10 | . concentrically moved; Bell crushers |
| 1/005 | . {hydraulically or pneumatically operated} | 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) |
| 1/02 | . Jaw crushers or pulverisers | 4/02 | . with two or more rollers |
| 1/025 | . . {Jaw clearance or overload control} | 4/04 | . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids |
| 1/04 | . . with single-acting jaws | 4/06 | . . specially adapted for milling grain |
| 1/043 | . . . {with cooperating single acting jaws} | 4/08 | . . with co-operating corrugated or toothed crushing-rollers |
| 1/046 | . . . {of the plural stage type} | 4/10 | . with a roller co-operating with a stationary member |
| 1/06 | . . with double-acting jaws | 4/12 | . . in the form of a plate |
| 1/08 | . . with jaws coacting with rotating roller | 4/14 | . . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids |
| 1/10 | . . Shape or construction of jaws | 4/16 | . . . specially adapted for milling grain |
| 1/12 | . Mills with non-rotating spiked members | 4/18 | . . in the form of a bar |
| 1/14 | . Stamping mills | 4/20 | . . . wherein the roller is corrugated or toothed |
| 2/00 | Crushing or disintegrating by gyratory or cone crushers {(with non-coaxial discs with intersecting axes B02C 7/005)} | 4/22 | . . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids |
| 2002/002 | . {the bowl being a driven element for providing a crushing effect} | 4/24 | . . . specially adapted for milling grain |
| 2/005 | . {Lining} | 4/26 | . . in the form of a grid or grating |
| 2/007 | . {Feeding devices} | 4/28 | . Details |
| 2/02 | . eccentrically moved | 4/283 | . . {Lateral sealing shields} |
| 2/04 | . . with vertical axis | 4/286 | . . {Feeding devices} |
| 2/042 | . . . {Moved by an eccentric weight} | 4/30 | . Shape or construction of rollers |
| 2/045 | . . . {and with bowl adjusting or controlling mechanisms (B02C 2/042 , B02C 2/06 take precedence)} | 4/305 | . . . {Wear resistant rollers} |
| 2/047 | . . . {and with head adjusting or controlling mechanisms (B02C 2/042 , B02C 2/06 take precedence)} | 4/32 | . . Adjusting, applying pressure to, or controlling the distance between, milling members |
| 2/06 | . . . and with top bearing {(B02C 2/042 takes precedence)} | 4/34 | . . . in mills wherein a roller co-operates with a stationary member |
| 2/08 | . . with horizontal axis | | |

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| 4/36 | . . . in mills specially adapted for paste-like materials | 13/12 | . . with vortex chamber |
| 4/38 | . . . in grain mills | 13/13 | . with horizontal rotor shaft and combined with sifting devices, e.g. for making powdered fuel |
| 4/40 | . . Detachers, e.g. scrapers | 13/14 | . with vertical rotor shaft, e.g. combined with sifting devices |
| 4/42 | . . Driving mechanisms; Roller speed control | 2013/145 | . . {with fast rotating vanes generating vortexes effecting material on material impact} |
| 4/423 | . . . {with vibrating or oscillating mechanisms} | 13/16 | . . with beaters hinged to the rotor |
| 4/426 | . . . {Torque counterbalancing mechanisms} | 13/18 | . . with beaters rigidly connected to the rotor |
| 4/44 | . . Cooling or heating rollers or bars | 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)} |
| 7/00 | Crushing or disintegrating by disc mills (apparatus specially adapted for manufacture or treatment of cocoa or cocoa products exclusively A23G 1/04) | 13/1814 | {by means of beater or impeller elements fixed on top of a disc type rotor} |
| 7/005 | . {Crushers with non-coaxial toothed discs with intersecting axes} | 13/1821 | {the beater or impeller elements being rotatably fixed around their own axis} |
| 7/02 | . with coaxial discs | 13/1828 | {with dead bed protected beater or impeller elements} |
| 7/04 | . . with concentric circles of intermeshing teeth | 13/1835 | {by means of beater or impeller elements fixed in between an upper and lower rotor disc} |
| 7/06 | . . with horizontal axis (B02C 7/04 takes precedence) | 13/1842 | {with dead bed protected beater or impeller elements} |
| 7/08 | . . with vertical axis (B02C 7/04 takes precedence) | 13/185 | {Construction or shape of anvil or impact plate} |
| 7/10 | . with eccentric discs | 2013/1857 | {rotating coaxially around the rotor shaft} |
| 7/11 | . Details | 2013/1864 | {rotatable around its own axis} |
| 7/12 | . . Shape or construction of discs | 2013/1871 | {vertically adjustable} |
| 7/13 | . . . for grain mills | 2013/1878 | {radially adjustable} |
| 7/14 | . . Adjusting, applying pressure to, or controlling distance between, discs | 2013/1885 | {of dead bed type} |
| 7/16 | . . Driving mechanisms | 2013/1892 | {cooled or heated} |
| 7/17 | . . Cooling or heating of discs | 13/20 | . with two or more co-operating rotors |
| 7/175 | . Disc mills specially adapted for paste-like material, e.g. paint, chocolate, colloids | 13/205 | . . {arranged concentrically} |
| 7/18 | . Disc mills specially adapted for grain | 13/22 | . with intermeshing pins {; Pin Disk Mills} |
| 7/182 | . . {with horizontal axis} | 13/24 | . . arranged around a vertical axis |
| 7/184 | . . {with vertical axis} | 13/26 | . Details |
| 7/186 | . . {Adjusting, applying pressure to, or controlling distance between, discs} | 13/28 | . . Shape or construction of beater elements |
| 7/188 | . . {Driving mechanisms} | 13/2804 | . . . {the beater elements being rigidly connected to the rotor} |
| 9/00 | Other milling methods or mills specially adapted for grain | 2013/2808 | . . . {the beater elements are attached to disks mounted on a shaft} |
| 9/02 | . Cutting or splitting grain | 2013/2812 | . . . {the beater elements are attached to a hollow cylindrical rotor} |
| 9/04 | . Systems or sequences of operations; Plant | 2013/2816 | . . . {of chain, rope or cable type} |
| 11/00 | Other auxiliary devices or accessories specially adapted for grain mills | 13/282 | . . Shape or inner surface of mill-housings |
| 11/02 | . Breaking up amassed particles, e.g. flakes | 2013/2825 | . . . {with fastening means for fixing lining members to the inner surface of mill-housings} |
| 11/04 | . Feeding devices | 13/284 | . . . Built-in screens |
| 11/06 | . Arrangements for preventing fire or explosion (methods for preventing or extinguishing fires, devices therefor A62C) | 13/286 | . . Feeding or discharge |
| 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) | 2013/28609 | . . . {Discharge means} |
| 13/00 | Disintegrating by mills having rotary beater elements {; Hammer mills} | 2013/28618 | . . . {Feeding means} |
| 13/02 | . with horizontal rotor shaft (with axial flow B02C 13/10) | 2013/28627 | {of ram or pusher type} |
| 13/04 | . . with beaters hinged to the rotor; Hammer mills | 2013/28636 | {of conveyor belt type} |
| 13/06 | . . with beaters rigidly connected to the rotor | 2013/28645 | {of conveyor belt and cooperating roller type} |
| 13/08 | . . . and acting as a fan | 2013/28654 | {of screw type} |
| 13/09 | . . . and throwing the material against an anvil or impact plate {(with vertical axis B02C 13/1807)} | 2013/28663 | {using rollers} |
| 13/095 | {with an adjustable anvil or impact plate} | 2013/28672 | {Feed chute arrangements} |
| 13/10 | . with horizontal rotor shaft and axial flow | 2013/28681 | {Feed distributor plate for vertical mill} |

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| 2013/2869 | . . . {Arrangements of feed and discharge means in relation to each other} | 17/07 | . . . in radial arrangement |
| 13/288 | . . Ventilating, or influencing air circulation | 17/08 | . . with containers performing a planetary movement |
| 2013/29 | . . {devices for manipulating beater elements} | 17/10 | . with one or a few disintegrating members arranged in the container |
| 13/30 | . . Driving mechanisms | 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)} |
| 13/31 | . . Safety devices or measures | 17/16 | . Mills in which a fixed container houses stirring means tumbling the charge |
| 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)} | 17/161 | . . {Arrangements for separating milling media and ground material} |
| 15/001 | . {Air flow directing means positioned on the periphery of the horizontally rotating milling surface} | 17/163 | . . {Stirring means} |
| 2015/002 | . {combined with a classifier} | 2017/165 | . . {with stirring means comprising more than one agitator} |
| 15/003 | . {Shape or construction of discs or rings} | 17/166 | . . {of the annular gap type} |
| 15/004 | . {Shape or construction of rollers or balls} | 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} |
| 15/005 | . . {Rollers or balls of composite construction} | 17/18 | . Details |
| 15/006 | . {Ring or disc drive gear arrangement} | 17/1805 | . . {Monitoring devices for tumbling mills} |
| 15/007 | . {Mills with rollers pressed against a rotary horizontal disc (with pendularly mounted rollers B02C 15/04)} | 17/181 | . . {Bearings specially adapted for tumbling mills} |
| 2015/008 | . {Roller drive arrangements} | 17/1815 | . . {Cooling or heating devices} |
| 15/02 | . Centrifugal pendulum-type mills | 17/182 | . . {Lids} |
| 15/04 | . Mills with pressed pendularly-mounted rollers, e.g. spring pressed | 17/1825 | . . {Lifting devices (lifting devices associated with the lining for containers B02C 17/22)} |
| 15/045 | . . {pressed against the interior of a ring rotating in a vertical plane} | 17/183 | . . {Feeding or discharging devices} |
| 15/06 | . Mills with rollers forced against the interior of a rotary ring, e.g. under spring action (B02C 15/04 takes precedence) | 17/1835 | . . . {Discharging devices combined with sorting or separating of material (B02C 17/186 takes precedence)} |
| 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) | 17/184 | {with separator arranged in discharge path of crushing zone} |
| 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 | 17/1845 | {with return of oversize material to crushing zone} |
| 15/12 | . Mills with at least two discs {or rings} and interposed balls or rollers mounted like ball or roller bearings | 17/185 | {with more than one separator} |
| 15/123 | . . {with rings and interposed rollers} | 17/1855 | {with separator defining termination of crushing zone, e.g. screen denying egress of oversize material} |
| 2015/126 | . . {of the plural stage type} | 17/186 | . . . {Adding fluid, other than for crushing by fluid energy} |
| 15/14 | . Edge runners, e.g. Chile mills | 17/1865 | {after crushing} |
| 2015/143 | . . {each runner pivot carrying more than one runner} | 17/187 | {with recirculation of material to crushing zone} |
| 2015/146 | . . {Step-shaped runners} | 17/1875 | {passing gas through crushing zone} |
| 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 | 17/188 | {characterised by point of gas entry or exit or by gas flow path} |
| 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) | 17/1885 | {the applied gas acting to effect material separation (B02C 17/1895 takes precedence)} |
| 17/002 | . {with rotary cutting or beating elements} | 17/189 | {with return of oversize material to crushing zone (B02C 17/1895 takes precedence)} |
| 17/005 | . {the charge being turned over by magnetic forces} | 17/1895 | {gas being recirculated to crushing zone} |
| 17/007 | . {specially adapted for disintegrating refuse} | 17/20 | . . Disintegrating members |
| 17/02 | . with perforated container | 17/205 | . . . {Adding disintegrating members to the tumbling mill} |
| 17/04 | . with unperforated container | 17/22 | . . Lining for containers |
| 17/06 | . . with several compartments | 17/225 | . . . {using rubber or elastomeric material} |
| 2017/065 | . . . {with several compartments in the form of multiwell blocks} | 17/24 | . . Driving mechanisms |
| | | 18/00 | Disintegrating by knives or other cutting or tearing members which chop material into fragments {(tree stump comminutors A01G 23/067)} |
| | | 18/0007 | . {specially adapted for disintegrating documents} |

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| 2018/0015 | . . {for disintegrating CDs, DVDs and/or credit cards} | 2018/168 | . . . {User safety devices or measures in shredders} |
| 2018/0023 | . . {Switching devices} | 18/18 | . . . Knives; Mountings thereof |
| 2018/003 | . . {Removing clips, pins or staples before disintegrating} | 18/182 | {Disc-shaped knives} |
| 2018/0038 | . . {Motor drives} | 18/184 | {with peripherally arranged demountable cutting tips or elements} |
| 2018/0046 | . . {Shape or construction of frames, housings or casings} | 18/186 | {Axially elongated knives} |
| 2018/0053 | . . {hand-operated} | 2018/188 | {Stationary counter-knives; Mountings thereof} |
| 2018/0061 | . . {with compacting devices for the disintegrated material} | 18/20 | Sickle-shaped knives |
| 2018/0069 | . . {with stripping devices} | 18/22 | Feed or discharge means |
| 18/0076 | . {with cutting or tearing members fixed on endless flexible members (without cutting or tearing members B02C 19/0006)} | 2018/2208 | {for weblike material} |
| 18/0084 | . {specially adapted for disintegrating garbage, waste or sewage} | 18/2216 | {Discharge means} |
| 18/0092 | . . {for waste water or for garbage} | 18/2225 | {Feed means} |
| 18/02 | . with reciprocating knives | 18/2233 | {of ram or pusher type} |
| 18/04 | . . Details | 18/2241 | {of conveyor belt type (B02C 18/225 takes precedence)} |
| 18/06 | . with rotating knives | 18/225 | {of conveyor belt and cooperating roller type} |
| 18/062 | . . {with rotor elements extending axially in close radial proximity of a concentrically arranged slotted or perforated ring} | 18/2258 | {of screw type} |
| 18/065 | . . {within rotatable bowls, e.g. meat cutters} | 18/2266 | {of revolving drum type} |
| 18/067 | . . {Tub-grinders} | 18/2275 | {using a rotating arm} |
| 18/08 | . . within vertical containers {(B02C 18/062 , B02C 18/065 take precedence)} | 18/2283 | {using rollers (B02C 18/225 takes precedence)} |
| 18/083 | . . . {with a disc rotor having generally radially extending slots or openings bordered with cutting knives} | 18/2291 | {Feed chute arrangements} |
| 18/086 | . . . {specially adapted for disintegrating plastics, e.g. cinematographic films (for plastic bottles B02C 19/0093 , disintegrating plastics B29B 17/00)} | 18/24 | . . . Drives |
| 18/10 | . . . with drive arranged above container {(B02C 18/083 takes precedence)} | 18/26 | . with knives which both reciprocate and rotate |
| 18/12 | . . . with drive arranged below container {(B02C 18/083 takes precedence)} | 18/28 | . with spiked cylinders |
| 18/14 | . . within horizontal containers {(B02C 18/062 , B02C 18/065 take precedence)} | 18/30 | . Mincing machines with perforated discs and feeding worms |
| 18/141 | . . . {with axial flow} | 18/301 | . . {with horizontal axis} |
| 18/142 | . . . {with two or more inter-engaging rotatable cutter assemblies} | 18/302 | . . . {with a knife-perforated disc unit} |
| 18/143 | . . . {with a disc rotor having generally radially extending slots or openings bordered with cutting knives} | 18/304 | . . . {with several axially aligned knife-perforated disc units} |
| 18/144 | . . . {with axially elongated knives} | 18/305 | . . {Details} |
| 18/145 | . . . {with knives spaced axially and circumferentially on the periphery of a cylindrical rotor unit} | 2018/307 | . . . {Cooling arrangements in mincing machines} |
| 18/146 | . . . {with a rotor comprising a plurality of axially contiguous disc-like segments each having at least one radially extending cutting element} | 2018/308 | . . {with separating devices for hard material, e.g. bone} |
| 2018/147 | . . . {of the plural stage type} | 18/32 | . . with sharpening devices |
| 18/148 | . . . {specially adapted for disintegrating plastics, e.g. cinematographic films (for plastic bottles B02C 19/0093 , disintegrating plastics B29B 17/00)} | 18/34 | . . with means for cleaning the perforated discs |
| 18/16 | . . Details | 18/36 | . . Knives or perforated discs |
| 2018/162 | . . . {Shape or inner surface of shredder-housings} | 18/362 | . . . {Knives} |
| 2018/164 | . . . {Prevention of jamming and/or overload} | 18/365 | . . . {Perforated discs} |
| 2018/166 | . . . {Lubricating the knives of the cutting mechanisms} | 2018/367 | . . . {Resiliently mounted knives or discs} |
| | | 18/38 | . . Drives |
| | | 19/00 | Other disintegrating devices or methods (for grain B02C 9/00) |
| | | 19/0006 | . {Crushing by endless flexible members (with cutting or tearing members B02C 18/0076)} |
| | | 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)} |
| | | 19/0018 | . . {using a rotor accelerating the materials centrifugally against a circumferential breaking surface (rotors with beater elements B02C 13/09 , B02C 13/1807)} |
| | | 19/0025 | . . . {by means of a rotor with radially extending channels} |
| | | 19/0031 | . . . {by means of an open top rotor} |
| | | 19/0037 | {with concentrically arranged open top rotors} |

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| 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)} | 23/02 | . Feeding devices (for grain mills B02C 11/04; for roller mills B02C 4/286); transport devices in general B65G) |
| 19/005 | . . {the materials to be pulverised being disintegrated by collision of, or friction between, the material particles (jet mills B02C 19/06)} | 23/04 | . Safety devices (in general F16P {; for rotary mills B02C 13/31 }) |
| 19/0056 | . {specially adapted for specific materials not otherwise provided for} | 23/06 | . Selection or use of additives to aid disintegrating |
| 19/0062 | . . {specially adapted for shredding scrap metal, e.g. automobile bodies} | 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 }) |
| 19/0068 | . . {specially adapted for breaking-up fluorescent tubes} | 23/10 | . . with separator arranged in discharge path of crushing or disintegrating zone |
| 19/0075 | . . {specially adapted for disintegrating medical waste (disposal of medical waste B09B 3/0075 , sterilisation of refuse A61L 11/00)} | 23/12 | . . . with return of oversize material to crushing or disintegrating zone |
| 19/0081 | . . {specially adapted for breaking-up bottles} | 23/14 | . . with more than one separator |
| 19/0087 | . . . {for glass bottles} | 23/16 | . . with separator defining termination of crushing or disintegrating zone, e.g. screen denying egress of oversize material |
| 19/0093 | . . . {for plastic bottles} | 2023/165 | . . . {Screen denying egress of oversize material} |
| 19/06 | . Jet mills | 23/18 | . Adding fluid, other than for crushing or disintegrating by fluid energy (for tumbling mills B02C 17/186 ; feeding devices B02C 23/02) |
| 19/061 | . . {of the cylindrical type (B02C 19/068 takes precedence)} | 23/20 | . . after crushing or disintegrating |
| 19/063 | . . {of the toroidal type (B02C 19/068 takes precedence)} | 23/22 | . . . with recirculation of material to crushing or disintegrating zone |
| 19/065 | . . {of the opposed-jet type (B02C 19/068 takes precedence)} | 23/24 | . . Passing gas through crushing or disintegrating zone (B02C 15/001 , B02C 23/38 , B02C 23/40 take precedence) |
| 19/066 | . . {of the jet-anvil type (B02C 19/068 takes precedence)} | 23/26 | . . . characterised by point of gas entry or exit or by gas flow path |
| 19/068 | . . {of the fluidised-bed type} | 23/28 | . . . gas moving means being integral with, or attached to, crushing or disintegrating element |
| 19/08 | . Pestle and mortar | 23/30 | . . . the applied gas acting to effect material separation (B02C 23/34 takes precedence) |
| 19/10 | . Mills in which a friction block is towed along the surface of a cylindrical or annular member | 23/32 | . . . with return of oversize material to crushing or disintegrating zone (B02C 23/34 takes precedence) |
| 19/11 | . High-speed drum mills (for separating B04B) | 23/34 | . . . gas being recirculated to crushing or disintegrating zone |
| 19/16 | . Mills provided with vibrators (roller mills B02C 4/423 ; tumbling mills B02C 17/14) | 23/36 | . . the crushing or disintegrating zone being submerged in liquid |
| 19/18 | . Use of auxiliary physical effects, e.g. ultrasonics, irradiation, for disintegrating | 23/38 | . . in apparatus having multiple crushing or disintegrating zones |
| 2019/183 | . . {Crushing by discharge of high electrical energy} | 23/40 | . . with more than one means for adding fluid to the material being crushed or disintegrated |
| 19/186 | . . {Use of cold or heat for disintegrating (B02C 4/44 , B02C 7/17 , B02C 11/08 take precedence)} | 25/00 | Control arrangements specially adapted for crushing or disintegrating |
| 19/20 | . Disintegrating by grating (domestic food grating devices A47J 43/25)} | 2201/00 | Codes relating to disintegrating devices adapted for specific materials |
| 19/22 | . Crushing mills with screw-shaped crushing means | 2201/02 | . for reinforced concrete |
| 21/00 | Disintegrating plant with or without drying of the material (for grain B02C 9/04) | 2201/04 | . for used tyres |
| 21/002 | . {using a combination of a roller mill and a drum mill} | 2201/06 | . for garbage, waste or sewage |
| 21/005 | . . {the roller mill having cooperating rollers} | 2201/063 | . . for waste water or sewage |
| 21/007 | . {using a combination of two or more drum or tube mills} | 2201/066 | . . for garden waste |
| 21/02 | . Transportable disintegrating plant | 2210/00 | Codes relating to different types of disintegrating devices |
| 2021/023 | . . {for disintegrating material on the surface of the ground} | 2210/01 | . Indication of wear on beaters, knives, rollers, anvils, linings and the like |
| 21/026 | . . {self-propelled} | 2210/02 | . Features for generally used wear parts on beaters, knives, rollers, anvils, linings and the like |
| 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) | | |