

Symbol	Typ	Titel
B	Sektion	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
B02	Klasse	CRUSHING, PULVERISING, OR DISINTEGRATING; PREPARATORY TREATMENT OF GRAIN FOR MILLING
B02C	Unterklasse	CRUSHING, PULVERISING, OR DISINTEGRATING IN GENERAL; MILLING GRAIN (obtaining metallic powder by crushing, grinding or milling B22F 9/04)
B02C 1/00	Hauptgruppe	Crushing or disintegrating by reciprocating members
B02C 1/02	1-Punkt Untergruppe	. Jaw crushers or pulverisers
B02C 1/04	2-Punkt Untergruppe	. . with single-acting jaws
B02C 1/06	2-Punkt Untergruppe	. . with double-acting jaws
B02C 1/08	2-Punkt Untergruppe	. . with jaws coacting with a rotating roller
B02C 1/10	2-Punkt Untergruppe	. . Shape or construction of jaws
B02C 1/12	1-Punkt Untergruppe	. Mills with non-rotating spiked members
B02C 1/14	1-Punkt Untergruppe	. Stamping mills
B02C 2/00	Hauptgruppe	Crushing or disintegrating by gyratory or cone crushers
B02C 2/02	1-Punkt Untergruppe	. eccentrically moved
B02C 2/04	2-Punkt Untergruppe	. . with vertical axis
B02C 2/06	3-Punkt Untergruppe	. . . and with top bearing
B02C 2/08	2-Punkt Untergruppe	. . with horizontal axis
B02C 2/10	1-Punkt Untergruppe	. concentrically moved; Bell crushers
B02C 4/00	Hauptgruppe	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	1-Punkt Untergruppe	. with two or more rollers
B02C 4/04	2-Punkt Untergruppe	. . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids
B02C 4/06	2-Punkt Untergruppe	. . specially adapted for milling grain
B02C 4/08	2-Punkt Untergruppe	. . with co-operating corrugated or toothed crushing-rollers
B02C 4/10	1-Punkt Untergruppe	. with a roller co-operating with a stationary member
B02C 4/12	2-Punkt Untergruppe	. . in the form of a plate
B02C 4/14	3-Punkt Untergruppe	. . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids
B02C 4/16	3-Punkt Untergruppe	. . . specially adapted for milling grain
B02C 4/18	2-Punkt Untergruppe	. . in the form of a bar
B02C 4/20	3-Punkt Untergruppe	. . . wherein the roller is corrugated or toothed
B02C 4/22	3-Punkt Untergruppe	. . . specially adapted for milling paste-like material, e.g. paint, chocolate, colloids
B02C 4/24	3-Punkt Untergruppe	. . . specially adapted for milling grain

Symbol	Typ	Titel
B02C 4/26	2-Punkt Untergruppe	. . in the form of a grid or grating
B02C 4/28	1-Punkt Untergruppe	. Details
B02C 4/30	2-Punkt Untergruppe	. . Shape or construction of rollers
B02C 4/32	2-Punkt Untergruppe	. . Adjusting, applying pressure to, or controlling the distance between, milling members
B02C 4/34	3-Punkt Untergruppe	. . . in mills wherein a roller co-operates with a stationary member
B02C 4/36	3-Punkt Untergruppe	. . . in mills specially adapted for paste-like materials
B02C 4/38	3-Punkt Untergruppe	. . . in grain mills
B02C 4/40	2-Punkt Untergruppe	. . Detachers, e.g. scrapers
B02C 4/42	2-Punkt Untergruppe	. . Driving mechanisms; Roller speed control
B02C 4/44	2-Punkt Untergruppe	. . Cooling or heating rollers or bars
B02C 7/00	Hauptgruppe	Crushing or disintegrating by disc mills (apparatus specially adapted for manufacture or treatment of cocoa or cocoa products exclusively A23G 1/04)
B02C 7/02	1-Punkt Untergruppe	. with coaxial discs
B02C 7/04	2-Punkt Untergruppe	. . with concentric circles of intermeshing teeth
B02C 7/06	2-Punkt Untergruppe	. . with horizontal axis (B02C 7/04 takes precedence)
B02C 7/08	2-Punkt Untergruppe	. . with vertical axis (B02C 7/04 takes precedence)
B02C 7/10	1-Punkt Untergruppe	. with eccentric discs
B02C 7/11	1-Punkt Untergruppe	. Details
B02C 7/12	2-Punkt Untergruppe	. . Shape or construction of discs
B02C 7/13	3-Punkt Untergruppe	. . . for grain mills
B02C 7/14	2-Punkt Untergruppe	. . Adjusting, applying pressure to, or controlling distance between, discs
B02C 7/16	2-Punkt Untergruppe	. . Driving mechanisms
B02C 7/17	2-Punkt Untergruppe	. . Cooling or heating of discs
B02C 7/175	1-Punkt Untergruppe	. Disc mills specially adapted for paste-like material, e.g. paint, chocolate, colloids
B02C 7/18	1-Punkt Untergruppe	. Disc mills specially adapted for grain
B02C 9/00	Hauptgruppe	Other milling methods or mills specially adapted for grain
B02C 9/02	1-Punkt Untergruppe	. Cutting or splitting grain
B02C 9/04	1-Punkt Untergruppe	. Systems or sequences of operations; Plant
B02C 11/00	Hauptgruppe	Other auxiliary devices or accessories specially adapted for grain mills
B02C 11/02	1-Punkt Untergruppe	. Breaking up amassed particles, e.g. flakes
B02C 11/04	1-Punkt Untergruppe	. Feeding devices
B02C 11/06	1-Punkt Untergruppe	. Arrangements for preventing fire or explosion (methods for preventing or extinguishing fires, devices therefor A62C)

Symbol	Typ	Titel
B02C 11/08	1-Punkt Untergruppe	. 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	Hauptgruppe	Disintegrating by mills having rotary beater elements
B02C 13/02	1-Punkt Untergruppe	. with horizontal rotor shaft (with axial flow B02C 13/10)
B02C 13/04	2-Punkt Untergruppe	. . with beaters hinged to the rotor; Hammer mills
B02C 13/06	2-Punkt Untergruppe	. . with beaters rigidly connected to the rotor
B02C 13/08	3-Punkt Untergruppe	. . . and acting as a fan
B02C 13/09	3-Punkt Untergruppe	. . . and throwing the material against an anvil or impact plate
B02C 13/10	1-Punkt Untergruppe	. with horizontal rotor shaft and axial flow
B02C 13/12	2-Punkt Untergruppe	. . with vortex chamber
B02C 13/13	1-Punkt Untergruppe	. with horizontal rotor shaft and combined with sifting devices, e.g. for making powdered fuel
B02C 13/14	1-Punkt Untergruppe	. with vertical rotor shaft, e.g. combined with sifting devices
B02C 13/16	2-Punkt Untergruppe	. . with beaters hinged to the rotor
B02C 13/18	2-Punkt Untergruppe	. . with beaters rigidly connected to the rotor
B02C 13/20	1-Punkt Untergruppe	. with two or more co-operating rotors
B02C 13/22	1-Punkt Untergruppe	. with intermeshing pins
B02C 13/24	2-Punkt Untergruppe	. . arranged around a vertical axis
B02C 13/26	1-Punkt Untergruppe	. Details
B02C 13/28	2-Punkt Untergruppe	. . Shape or construction of beater elements
B02C 13/282	2-Punkt Untergruppe	. . Shape or inner surface of mill-housings
B02C 13/284	3-Punkt Untergruppe	. . . Built-in screens
B02C 13/286	2-Punkt Untergruppe	. . Feeding or discharge
B02C 13/288	2-Punkt Untergruppe	. . Ventilating, or influencing air circulation
B02C 13/30	2-Punkt Untergruppe	. . Driving mechanisms
B02C 13/31	2-Punkt Untergruppe	. . Safety devices or measures
B02C 15/00	Hauptgruppe	Disintegrating by milling members in the form of rollers or balls co-operating with rings or discs
B02C 15/02	1-Punkt Untergruppe	. Centrifugal pendulum-type mills
B02C 15/04	1-Punkt Untergruppe	. Mills with pressed pendularly-mounted rollers, e.g. spring pressed [4]
B02C 15/06	1-Punkt Untergruppe	. Mills with rollers forced against the interior of a rotary ring, e.g. under spring action (B02C 15/04 takes precedence) [4]
B02C 15/08	1-Punkt Untergruppe	. 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	1-Punkt Untergruppe	. 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	1-Punkt Untergruppe	. Mills with at least two discs and interposed balls or rollers mounted like ball or roller bearings [4]

Symbol	Typ	Titel
B02C 15/14	1-Punkt Untergruppe	. Edge runners, e.g. Chile mills
B02C 15/16	1-Punkt Untergruppe	. 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	Hauptgruppe	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)
B02C 17/02	1-Punkt Untergruppe	. with perforated container
B02C 17/04	1-Punkt Untergruppe	. with unperforated container
B02C 17/06	2-Punkt Untergruppe	. . with several compartments
B02C 17/07	3-Punkt Untergruppe	. . . in radial arrangement
B02C 17/08	2-Punkt Untergruppe	. . with containers performing a planetary movement
B02C 17/10	1-Punkt Untergruppe	. with one or a few disintegrating members arranged in the container
B02C 17/14	1-Punkt Untergruppe	. 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
B02C 17/16	1-Punkt Untergruppe	. Mills in which a fixed container houses stirring means tumbling the charge
B02C 17/18	1-Punkt Untergruppe	. Details
B02C 17/20	2-Punkt Untergruppe	. . Disintegrating members
B02C 17/22	2-Punkt Untergruppe	. . Lining for containers
B02C 17/24	2-Punkt Untergruppe	. . Driving mechanisms
B02C 18/00	Hauptgruppe	Disintegrating by knives or other cutting or tearing members which chop material into fragments (slicing B26D); Mincing machines or similar apparatus using worms or the like (machines for domestic use not covered otherwise A47J 43/04; multi-purpose machines for preparing food A47J 44/00)
B02C 18/02	1-Punkt Untergruppe	. with reciprocating knives
B02C 18/04	2-Punkt Untergruppe	. . Details
B02C 18/06	1-Punkt Untergruppe	. with rotating knives
B02C 18/08	2-Punkt Untergruppe	. . within vertical containers
B02C 18/10	3-Punkt Untergruppe	. . . with drive arranged above container
B02C 18/12	3-Punkt Untergruppe	. . . with drive arranged below container
B02C 18/14	2-Punkt Untergruppe	. . within horizontal containers
B02C 18/16	2-Punkt Untergruppe	. . Details
B02C 18/18	3-Punkt Untergruppe	. . . Knives; Mountings thereof
B02C 18/20	4-Punkt Untergruppe	 Sickle-shaped knives
B02C 18/22	3-Punkt Untergruppe	. . . Feed or discharge means
B02C 18/24	3-Punkt Untergruppe	. . . Drives
B02C 18/26	1-Punkt Untergruppe	. with knives which both reciprocate and rotate

Symbol	Typ	Titel
B02C 18/28	1-Punkt Untergruppe	. with spiked cylinders
B02C 18/30	1-Punkt Untergruppe	. Mincing machines with perforated discs and feeding worms
B02C 18/32	2-Punkt Untergruppe	. . with sharpening devices
B02C 18/34	2-Punkt Untergruppe	. . with means for cleaning the perforated discs
B02C 18/36	2-Punkt Untergruppe	. . Knives or perforated discs
B02C 18/38	2-Punkt Untergruppe	. . Drives
B02C 18/40	Gelöscht	(covered by B02C 18/00-B02C 18/38)
B02C 18/42	Gelöscht	(covered by B02C 18/00; E03C 1/266)
B02C 18/44	Gelöscht	(covered by B02C 18/00); (transferred to B29B 17/04)
B02C 19/00	Hauptgruppe	Other disintegrating devices or methods (for grain B02C 9/00)
B02C 19/06	1-Punkt Untergruppe	. Jet mills
B02C 19/08	1-Punkt Untergruppe	. Pestle and mortar
B02C 19/10	1-Punkt Untergruppe	. Mills in which a friction block is towed along the surface of a cylindrical or annular member
B02C 19/11	1-Punkt Untergruppe	. High-speed drum mills (for separating B04B)
B02C 19/12	Gelöscht	(covered by B02C 19/00)
B02C 19/14	Gelöscht	(covered by B02C 19/00)
B02C 19/16	1-Punkt Untergruppe	. Mills provided with vibrators (tumbling mills B02C 17/14)
B02C 19/18	1-Punkt Untergruppe	. Use of auxiliary physical effects, e.g. ultrasonics, irradiation, for disintegrating
B02C 19/20	1-Punkt Untergruppe	. Disintegrating by grating
B02C 19/22	1-Punkt Untergruppe	. Crushing mills with screw-shaped crushing means
B02C 21/00	Hauptgruppe	Disintegrating plant with or without drying of the material (for grain B02C 9/04)
B02C 21/02	1-Punkt Untergruppe	. Transportable disintegrating plant
B02C 23/00	Hauptgruppe	Auxiliary methods or auxiliary devices or accessories specially adapted for crushing or disintegrating not provided for in groups B02C 1/00-B02C 21/00 or not specially adapted to apparatus covered by one only of groups B02C 1/00-B02C 21/00 (separating or sorting in general B03, B04, B07)
B02C 23/02	1-Punkt Untergruppe	. Feeding devices (transport devices in general B65G)
B02C 23/04	1-Punkt Untergruppe	. Safety devices (in general F16P)
B02C 23/06	1-Punkt Untergruppe	. Selection or use of additives to aid disintegrating
B02C 23/08	1-Punkt Untergruppe	. Separating or sorting of material, associated with crushing or disintegrating (B02C 23/18 takes precedence) [2]
B02C 23/10	2-Punkt Untergruppe	. . with separator arranged in discharge path of crushing or disintegrating zone [2]
B02C 23/12	3-Punkt Untergruppe	. . . with return of oversize material to crushing or disintegrating zone [2]
B02C 23/14	2-Punkt Untergruppe	. . with more than one separator [2]
B02C 23/16	2-Punkt Untergruppe	. . with separator defining termination of crushing or disintegrating zone, e.g. screen denying egress of oversize material [2]
B02C 23/18	1-Punkt Untergruppe	. Adding fluid, other than for crushing or disintegrating by fluid energy (feeding devices B02C 23/02) [2]

Symbol	Typ	Titel
B02C 23/20	2-Punkt Untergruppe	. . after crushing or disintegrating [2]
B02C 23/22	3-Punkt Untergruppe	. . . with recirculation of material to crushing or disintegrating zone [2]
B02C 23/24	2-Punkt Untergruppe	. . Passing gas through crushing or disintegrating zone (B02C 23/38, B02C 23/40 take precedence) [2]
B02C 23/26	3-Punkt Untergruppe	. . . characterised by point of gas entry or exit or by gas flow path [2]
B02C 23/28	3-Punkt Untergruppe	. . . gas moving means being integral with, or attached to, crushing or disintegrating element [2]
B02C 23/30	3-Punkt Untergruppe	. . . the applied gas acting to effect material separation (B02C 23/34 takes precedence) [2]
B02C 23/32	3-Punkt Untergruppe	. . . with return of oversize material to crushing or disintegrating zone (B02C 23/34 takes precedence) [2]
B02C 23/34	3-Punkt Untergruppe	. . . gas being recirculated to crushing or disintegrating zone [2]
B02C 23/36	2-Punkt Untergruppe	. . the crushing or disintegrating zone being submerged in liquid [2]
B02C 23/38	2-Punkt Untergruppe	. . in apparatus having multiple crushing or disintegrating zones [2]
B02C 23/40	2-Punkt Untergruppe	. . with more than one means for adding fluid to the material being crushed or disintegrated [2]
B02C 25/00	Hauptgruppe	Control arrangements specially adapted for crushing or disintegrating