

Symbol	Typ	Titel
B	Sektion	PERFORMING OPERATIONS; TRANSPORTING
B04	Klasse	CENTRIFUGAL APPARATUS OR MACHINES FOR CARRYING-OUT PHYSICAL OR CHEMICAL PROCESSES
B04C	Unterklasse	APPARATUS USING FREE VORTEX FLOW, e.g. CYCLONES (exhaust or silencing apparatus for machines or engines having means for removing solid constituents of exhaust, using inertial or centrifugal separators F01N 3/037; cyclonic type combustion apparatus F23)
B04C 1/00	Hauptgruppe	Apparatus in which the main direction of flow follows a flat spiral [1, 2006.01]
B04C 3/00	Hauptgruppe	Apparatus in which the axial direction of the vortex remains unchanged [1, 2006.01]
B04C 3/02	1-Punkt Untergruppe	. with heating or cooling, e.g. quenching, means [1, 2006.01]
B04C 3/04	1-Punkt Untergruppe	. Multiple arrangement thereof [1, 2006.01]
B04C 3/06	1-Punkt Untergruppe	. Construction of inlets or outlets to the vortex chamber [1, 2006.01]
B04C 5/00	Hauptgruppe	Apparatus in which the axial direction of the vortex is reversed [1, 2006.01]
B04C 5/02	1-Punkt Untergruppe	. Construction of inlets by which the vortex flow is generated [1, 2006.01]
B04C 5/04	2-Punkt Untergruppe	. . Tangential inlets [1, 2006.01]
B04C 5/06	2-Punkt Untergruppe	. . Axial inlets [1, 2006.01]
B04C 5/08	1-Punkt Untergruppe	. . Vortex chamber constructions [1, 2006.01]
B04C 5/081	2-Punkt Untergruppe	. . Shapes or dimensions [1, 2006.01]
B04C 5/085	2-Punkt Untergruppe	. . with wear-resisting arrangements [1, 2006.01]
B04C 5/087	2-Punkt Untergruppe	. . with flexible gas-tight walls [1, 2006.01]
B04C 5/10	2-Punkt Untergruppe	. . with perforated walls [1, 2006.01]
B04C 5/103	2-Punkt Untergruppe	. . Bodies or members, e.g. bulkheads, guides, in the vortex chamber (cores B04C 5/107) [1, 2006.01]
B04C 5/107	2-Punkt Untergruppe	. . Cores; Devices for inducing an air-core in hydrocyclones (forming part of the outlet pipe B04C 5/13) [1, 2006.01]
B04C 5/12	1-Punkt Untergruppe	. Construction of the overflow ducting, e.g. diffusing or spiral exits [1, 2006.01]
B04C 5/13	2-Punkt Untergruppe	. . formed as a vortex finder and extending into the vortex chamber; Discharge from vortex finder otherwise than at the top of the cyclone; Devices for controlling the overflow [1, 2006.01]
B04C 5/14	1-Punkt Untergruppe	. Construction of the underflow ducting; Apex constructions; Discharge arrangements [1, 2006.01]
B04C 5/15	2-Punkt Untergruppe	. . with swinging flaps or revolving sluices; Sluices; Check-valves [1, 2006.01]
B04C 5/16	2-Punkt Untergruppe	. . with variable-size outlets from the underflow ducting [1, 2006.01]
B04C 5/18	2-Punkt Untergruppe	. . with auxiliary fluid assisting discharge [1, 2006.01]
B04C 5/181	2-Punkt Untergruppe	. . Bulkheads or central bodies in the discharge opening [1, 2006.01]
B04C 5/185	2-Punkt Untergruppe	. . Dust collectors [1, 2006.01]
B04C 5/187	3-Punkt Untergruppe	. . . forming an integral part of the vortex chamber [1, 2006.01]
B04C 5/20	1-Punkt Untergruppe	. with heating or cooling, e.g. quenching, means [1, 2006.01]

Symbol	Typ	Titel
B04C 5/22	1-Punkt Untergruppe	. with cleaning means [1, 2006.01]
B04C 5/23	2-Punkt Untergruppe	.. using liquids [1, 2006.01]
B04C 5/24	1-Punkt Untergruppe	.. Multiple arrangement thereof [1, 2006.01]
B04C 5/26	2-Punkt Untergruppe	.. for series flow [1, 2006.01]
B04C 5/28	2-Punkt Untergruppe	.. for parallel flow [1, 2006.01]
B04C 5/30	2-Punkt Untergruppe	.. Recirculation constructions in or with cyclones which accomplish a partial recirculation of the medium, e.g. by means of conduits [1, 2006.01]
B04C 7/00	Hauptgruppe	Apparatus not provided for in group B04C 1/00, B04C 3/00 or B04C 5/00; Multiple arrangements not provided for in one of the groups B04C 1/00, B04C 3/00, or B04C 5/00; Combinations of apparatus covered by two or more of the groups B04C 1/00, B04C 3/00, or B04C 5/00 [1, 2006.01]
B04C 9/00	Hauptgruppe	Combinations with other devices, e.g. fans (with filters for separating particles from gases or vapour B01D 50/00; with dry electrostatic precipitation for separating particles from gases or vapour B03C 3/15) [1, 2006.01]
B04C 11/00	Hauptgruppe	Accessories, e.g. safety or control devices, not otherwise provided for [1, 2006.01]