

**CPC****COOPERATIVE PATENT CLASSIFICATION****B28C****PREPARING CLAY; PRODUCING MIXTURES CONTAINING CLAY OR CEMENTITIOUS MATERIAL, e.g. PLASTER** (preparing material for foundry moulds [B22C 5/00](#))**NOTE**

In this subclass, the following terms or expressions are used with the meanings indicated:

"cement" or "mixtures of cement with other substance" includes plaster;

"clay" includes like ceramic compositions.

**B28C 1/00**

**Apparatus or methods for obtaining or processing clay** (filtration in general [B01D](#); separation of solids from solids [B03](#), [B07](#); chemical part [C04B](#); by mining or quarrying [E21C 41/16](#), [E21C 41/26](#), [E21C 47/10](#))

## B28C 1/003

. {Plant; Methods}

## B28C 1/006

.. {Methods}

## B28C 1/02

. for producing or processing clay suspensions, {e.g. slip}(producing or processing suspensions in general [B01](#))

## B28C 1/04

.. Producing suspensions, e.g. by blunging {or mixing; with means for removing stones}

## B28C 1/06

.. Processing suspensions {i.e. after mixing}

## B28C 1/08

... Separating suspensions, e.g. for obtaining clay, for removing stones; {Cleaning clay slurries}

## B28C 1/082

.... {Dewatering ([B28C 1/088](#) takes precedence); Using sieves}

## B28C 1/084

.... {De-aerating}

## B28C 1/086

.... {Washing}

## B28C 1/088

.... {by centrifugal force}

## B28C 1/10

. for processing clay-containing substances in non-fluid condition (clay slurries [B28C 1/02](#)); {Plants}

## B28C 1/12

.. Storing and conditioning in storage; Specially adapted storage spaces or devices for their filling or emptying; {Tower structures for the storage of clay}(feeding clay to shaping apparatus [B28B 13/00](#))

## B28C 1/14

.. specially adapted for homogenising, comminuting or conditioning clay in non-fluid condition or for separating undesired admixtures therefrom (processes involving conversion to a slurry [B28C 1/02](#); conditioning in storage [B28C 1/12](#); comminuting in general [B02C](#); chemical features in eliminating iron or lime [C04B](#))

## B28C 1/16

... for homogenising, e.g. by mixing, kneading; {forcing through slots}

## B28C 1/18

... for comminuting {clay lumps}

## B28C 1/182

.... {by forcing the clay through screens or slots, e.g. using screw or rolls}

B28C 1/185	.....	{on cylindrical or conical surfaces, e.g. on rotating drums}
B28C 1/187	....	{using co-operating rotating elements, e.g. cutters}
B28C 1/20	...	for separating undesired admixed bodies, {e.g. stones}
B28C 1/203	....	{by forcing the clay through screens or slots, e.g. having exchangeable screens or slots}
B28C 1/206	.....	{on cylindrical or conical surfaces, e.g. on rotating drums}
B28C 1/22	...	combined with means for conditioning by heating, humidifying, or vacuum treatment, {by cooling, by sub-atmospheric pressure treatment}
B28C 1/222	....	{by moistening, e.g. by steam}
B28C 1/225	....	{by degassing, de-aerating}
B28C 1/227	....	{by heating, drying}

**Mixing clay or cement with other material** (general arrangement or layout of plant [B28C 9/00](#); mixers in general [B01F](#); concrete paving mixers combined with distributing devices [E01C 19/00](#); machines for preparing mixtures of road-metal with bitumen [E01C 19/10](#))

#### **NOTE**

In groups [B28C 3/00](#) to [B28C 7/00](#), the following term is used with the meaning indicated:

- "mixing" includes preliminary mixing, e.g. of some of the ingredients final mixing, and agitating the mixture to prevent segregation thereof

<b>B28C 3/00</b>	<b>Apparatus or methods for mixing clay with other substances</b> (producing clay suspensions <a href="#">B28C 1/02</a> )
<b>B28C 5/00</b>	<b>Apparatus or methods for producing mixtures of cement with other substances, e.g. slurries, mortars, porous or fibrous compositions</b> (controlling the mixing apparatus and supplying the ingredients <a href="#">B28C 7/00</a> {separating cement from waste concrete <a href="#">B03B 9/063</a> })
B28C 5/003	. {Methods for mixing ( <a href="#">B28C 5/386</a> , <a href="#">B28C 5/402</a> take precedence)}
B28C 5/006	.. {involving mechanical aspects}
B28C 5/02	. without using driven mechanical means effecting the mixing ( <a href="#">B28C 5/48</a> takes precedence)
B28C 5/023	.. { using a flexible mat or bag}
B28C 5/026	.. {Mixing guns or nozzles; Injector mixers (applying plaster by gas pressure <a href="#">E04F 21/12</a> ; both conveying and distributing concrete <a href="#">E04G 21/04</a> ; conveying concrete <a href="#">B65G 53/32</a> ; accelerating or decelerating material flow in troughs or tubes <a href="#">B65G 53/58</a> )}
B28C 5/04	.. Gravitational mixing; Mixing by intermingling streams of ingredients ({ <a href="#">B28C 5/026</a> takes precedence}; ingredients projected by fluid pressure <a href="#">B28C 5/06</a> )
B28C 5/06	.. the mixing being effected by the action of a fluid (in combination with driven mechanical means, producing cellular concrete <a href="#">B28C 5/38</a> )

- B28C 5/08 . using driven mechanical means affecting the mixing ([B28C 5/40](#), [B28C 5/42](#), [B28C 5/48](#) take precedence; in combination with the action of a fluid [B28C 5/38](#))
- B28C 5/0806 .. {Details; Accessories}
- B28C 5/0812 ... { Drum mixer cover, e.g. lid}
- B28C 5/0818 ... {Charging or discharging gates or chutes; Sealing means}
- B28C 5/0825 ... { Drum insulating means}
- B28C 5/0831 ... {Drives or drive systems, e.g. toothed racks, winches ([B28C 7/0876](#) takes precedence)}
- B28C 5/0837 .... {Drives for mixers of the tilted-drum type ([B28C 5/085](#) takes precedence)}
- B28C 5/0843 .... {Drives for drums rotating about a horizontal axis and supported by rotating rollers ([B28C 5/085](#) takes precedence)}
- B28C 5/085 .... {Hydraulic drives}
- B28C 5/0856 ... {Supporting frames or structures, e.g. supporting wheels}
- B28C 5/0862 .. {Adaptations of mixing containers therefor, e.g. use of material, coatings}
- B28C 5/0868 .. {Mixing apparatus in which a mixing container is hoisted along an inclined or vertical track during mixing to discharge at a higher level}
- B28C 5/0875 .. {Mixing in separate stages involving different containers for each stage}
- B28C 5/0881 .. {having a stator-rotor system with intermeshing teeth or cages}
- B28C 5/0887 .. {provided with sieves or filters}
- B28C 5/0893 .. {Mobile mixing devices, e.g. hanging}
- B28C 5/10 .. Mixing in containers not actuated to effect the mixing
- B28C 5/12 ... with stirrers sweeping through the materials {,e.g. with incorporated feeding or discharging means or with oscillating stirrers}
- B28C 5/1207 .... {with means for elevating the stirrer, e.g. out of the containers}
- B28C 5/1215 .... {Independent stirrer-drive units, e.g. portable or mounted on a wheelbarrow}
- B28C 5/1223 .... {discontinuously operating mixing devices, e.g. with consecutive containers}
- B28C 5/123 ..... {with pressure or suction means for discharging}
- B28C 5/1238 .... {for materials flowing continuously through the mixing device and with incorporated feeding or discharging devices ([feeding or discharging devices per se B28C 5/0818](#))}
- B28C 5/1246 ..... {with feeding devices ([B28C 5/1276](#), [B28C 5/1292](#) take precedence)}
- B28C 5/1253 ..... {with discharging devices ([B28C 5/1276](#), [B28C 5/1292](#) take precedence)}
- B28C 5/1261 ..... {Applying pressure for discharging ([applying pressure during mixing B28C 5/462](#))}
- B28C 5/1269 ..... {for making cellular concrete ([in general B28C 5/381](#))}
- B28C 5/1276 ..... {with consecutive separate containers with rotating stirring and feeding or discharging means}
- B28C 5/1284 ..... {having a feeding hopper and consecutive vertical or inclined mixing container fed at its upper part}
- B28C 5/1292 ..... {with rotating stirring and feeding or discharging means fixed on the same axis, e.g. in an inclined container fed at its lower part}
- B28C 5/14 .... the stirrers having motion about a horizontal or substantially horizontal axis {([with feeding or discharging means B28C 5/12](#))}
- B28C 5/141 ..... {with container tiltable or elevatable for emptying}
- B28C 5/142 ..... {the stirrer shaft carrying screw-blades}

B28C 5/143	.....	{for materials flowing continuously through the mixing device}
B28C 5/145	.....	{with several mixing chambers arranged one after the other}
B28C 5/146	.....	{with several stirrers with parallel shafts in one container ( <a href="#">B28C 5/145</a> takes precedence)}
B28C 5/147	.....	{the material being moved perpendicularly to the axis of the shafts}
B28C 5/148	.....	{the stirrer shaft carrying a plurality of radially extending mixing bars}
B28C 5/16	....	the stirrers having motion about a vertical or steeply inclined axis {(with feeding or discharging means <a href="#">B28C 5/12</a> )}
B28C 5/161	.....	{in containers tiltable for emptying in containers with inclined axes}
B28C 5/163	.....	{in annularly-shaped containers}
B28C 5/165	.....	{with stirrers having planetary motion}
B28C 5/166	.....	{Pan-type mixers}
B28C 5/168	.....	{with stirrers having planetary motion}
B28C 5/18	..	Mixing in containers to which motion is imparted to effect the mixing
B28C 5/1806	...	{rotating about an inclined axis (about a steeply inclined axis <a href="#">B28C 5/26</a> )}
B28C 5/1812	....	{with rotating mixing tools}
B28C 5/1818	....	{Mobile or portable devices, e.g. on a wheelbarrow ( <a href="#">B28C 5/1887</a> takes precedence)}
B28C 5/1825	...	{Mixers of the tilted-drum type, e.g. mixers pivotable about an axis perpendicular to the axis of rotation for emptying}
B28C 5/1831	....	{to be mounted on a tractor}
B28C 5/1837	....	{provided with feeding means, e.g. hoisting skips ( <a href="#">B28C 5/1831</a> , <a href="#">B28C 5/185</a> , <a href="#">B28C 5/1856</a> take precedence)}
B28C 5/1843	....	{having several drums}
B28C 5/185	....	{having driven stirrers, e.g. driven from underneath}
B28C 5/1856	....	{Details or parts, e.g. drums (drives <a href="#">B28C 5/0831</a> )}
B28C 5/1862	.....	{Construction of drum, e.g. provided with mixing blades}
B28C 5/1868	.....	{with mixing elements held stationary}
B28C 5/1875	.....	{Tilting means; Locks or brakes therefor}
B28C 5/1881	....	{the mixing drums being tilted otherwise than about a fixed axis perpendicular to the axis of rotation of the drum, e.g. by means of a set of links ( <a href="#">B28C 5/08B1</a> , <a href="#">B28C 5/08B3</a> , <a href="#">B28C 5/08B5</a> , <a href="#">B28C 5/08B10</a> take precedence)}
B28C 5/1887	....	{Mobile or portable devices, e.g. for use by do-it-yourself enthusiasts}
B28C 5/1893	...	{the mixing drum being rotated by pulling it over the ground; the mixing drum or the stirrer being driven by movement of the wheel of a vehicle}
B28C 5/20	...	rotating about a horizontal or substantially horizontal axis during mixing, e.g. without independent stirrers
B28C 5/2009	....	{with multi-compartment drums}
B28C 5/2018	....	{Transportable containers, e.g. on a wheelbarrow, to be fixed totally or partly in a mixer, e.g. for rotation therewith}
B28C 5/2027	....	{using spiral-shaped mixing drums}
B28C 5/2036	....	{with the material travelling through the mixer, the discharge being opposite the feed inlet ( <a href="#">B28C 5/2072</a> , <a href="#">B28C 5/22</a> , <a href="#">B28C 5/24</a> take precedence)}
B28C 5/2045	....	{Parts or components (drives <a href="#">B28C 5/0831</a> )}

- B28C 5/2054 . . . . . {Drums, e.g. provided with non-rotary mixing blades ([B28C 5/2009](#) takes precedence)}
- B28C 5/2063 . . . . . {Drums consisting of axially displaceable halves; Drums having discharging opening on their cylindrical part, e.g. the drum rotating in opposite direction for mixing or for discharging; Drums having a cylindrical part not being a surface of revolution}
- B28C 5/2072 . . . . . {Feeding or discharging mechanisms}
- B28C 5/2081 . . . . . {Chutes pivotable about an axis parallel to the plane of the inlet or outlet opening}
- B28C 5/209 . . . . . {Chutes rotatable about an axis parallel to the drum axis}
- B28C 5/22 . . . . . with stirrers held stationary, {e.g. the material forming a ring zone by centrifugal force}
- B28C 5/24 . . . . . with driven stirrers
- B28C 5/26 . . . . . rotating about a vertical or steeply inclined axis during the mixing, {e.g. comprising a flat bottomplate rotating about a vertical axis, co-operating with blades or stirrers}
- B28C 5/28 . . . . . without independent stirrers
- B28C 5/30 . . . . . with stirrers held stationary
- B28C 5/32 . . . . . with driven stirrers
- B28C 5/325 . . . . . {with several stirrer shafts}
- B28C 5/34 . . . . . Mixing on or by conveyers {e.g. by belts or chains provided with mixing elements}
- B28C 5/36 . . . . . Endless-belt mixers {i.e. for mixing while transporting the material on an endless belt, e.g. with stationary mixing elements}
- B28C 5/365 . . . . . {Mixing with driven mixing elements while transporting the mixture on an endless belt}
- B28C 5/38 . . . . . wherein the mixing is effected both by the action of a fluid and by directly-acting driven mechanical means, e.g. stirring means; {Producing cellular concrete}
- B28C 5/381 . . . . . {Producing cellular concrete ([B28C 5/1269](#) takes precedence; producing foam [B01F 3/04446](#), [B01F 3/04992](#))}
- B28C 5/383 . . . . . {comprising stirrers to effect the mixing}
- B28C 5/385 . . . . . {Stirrers specially adapted therefor}
- B28C 5/386 . . . . . {Plants; Systems; Methods}
- B28C 5/388 . . . . . {Methods}
- B28C 5/40 . . . . . Mixing specially adapted for preparing mixtures containing fibres
- B28C 5/402 . . . . . {Methods}
- B28C 5/404 . . . . . {Pre-treatment of fibres}
- B28C 5/406 . . . . . {and mixing with binding material}
- B28C 5/408 . . . . . {by spraying fibres and binding material}
- B28C 5/42 . . . . . Apparatus specially adapted for being mounted on vehicles with provision for mixing during transport ({[B28C 5/1893](#) takes precedence; mounted on a wheelbarrow [B28C 5/1215](#), [B28C 5/1818](#), [B28C 5/2018](#);} vehicle aspect [B60P 3/16](#))}
- B28C 5/4203 . . . . . {Details; Accessories}
- B28C 5/4206 . . . . . {Control apparatus; Drive systems, e.g. coupled to the vehicle drive-system}
- B28C 5/421 . . . . . {Drives (in general [B28C 5/0831](#))}

- B28C 5/4213 ..... {Hydraulic drives ([B28C 5/4217](#) takes precedence)}
- B28C 5/4217 ..... {Drives in combination with drum mountings; Drives directly coupled to the axis of rotating drums}
- B28C 5/422 ..... {Controlling or measuring devices ([B28C 5/4227](#) takes precedence)}
- B28C 5/4224 ..... { Roll-over prevention}
- B28C 5/4227 ..... {Transmission control mechanisms}
- B28C 5/4231 ... {Proportioning or supplying water (in general [B28C 7/12](#))}
- B28C 5/4234 ... {Charge or discharge systems therefor}
- B28C 5/4237 ..... {Charging, e.g. hoppers}
- B28C 5/4241 ..... {having self-charging means, e.g. skips, scoops or buckets, picking up the material from the ground}
- B28C 5/4244 ..... {Discharging; Concrete conveyer means, chutes or spouts therefor (in general [B28C 7/168](#))}
- B28C 5/4248 ..... {using chutes (combined with transporting belts [B28C 5/4255](#), combined with pumps or screws [B28C 5/4258](#))}
- B28C 5/4251 ..... {telescopic or foldable chutes}
- B28C 5/4255 ..... {using transporting belts, e.g. mounted on a foldable frame}
- B28C 5/4258 ..... {using pumps or transporting screws}
- B28C 5/4262 ... {Closures; Sealing mechanisms ([B28C 5/4237](#) takes precedence)}
- B28C 5/4265 ... {Mounting means for drums; Support frames}
- B28C 5/4268 ... {Drums, e.g. provided with non-rotary mixing blades (drums for concrete mixers with horizontal axis [B28C 5/2054](#))}
- B28C 5/4272 .. {with rotating drum rotating about a horizontal or inclined axis, e.g. comprising tilting or raising means for the drum ([B28C 5/4279](#) takes precedence)}
- B28C 5/4275 ... {with a drum rotating about a horizontal axis, e.g. perpendicular to the longitudinal axis of the vehicle}
- B28C 5/4279 .. {with rotating drum and independently-rotating mixing tools}
- B28C 5/4282 .. {with moving mixing tools in a stationary container}
- B28C 5/4286 ... {with mixing screw-blades}
- B28C 5/4289 ... {with stirrers rotating about a vertical axis}
- B28C 5/4293 ... {with reciprocating or oscillating stirrers (in general **B28C 5/12D**)}
- B28C 5/4296 .. {mounted on a tractor or on a tractor wheel (for tilted-drum type mixers [B28C 5/1831](#); charging thereof [B28C 5/4237](#))}
  
- B28C 5/44 . Apparatus specially adapted for drive by muscle power
  
- B28C 5/46 . Arrangements for applying super- or sub-atmospheric pressure during mixing; Arrangements for cooling or heating during mixing, {e.g. by introducing vapour}
- B28C 5/462 .. {Mixing at sub- or super-atmospheric pressure ([B28C 5/1261](#) takes precedence)}
- B28C 5/464 ... {at sub-atmospheric pressure}
- B28C 5/466 .. {Heating, e.g. using steam}
- B28C 5/468 .. {Cooling, e.g. using ice}
  
- B28C 5/48 . wherein the mixing is effected by vibrations (mixers with vibrating mechanisms in general [B01F 11/00](#))
- B28C 5/485 .. {with reciprocating or oscillating stirrers; Stirrers therefor ([B28C 5/4293](#) takes

precedence)}

- B28C 7/00**      **Controlling the operation of apparatus for producing mixtures of clay or cement with other substances; Supplying or proportioning the ingredients for mixing clay or cement with other substances; Discharging the mixture** {(B28C 5/42 takes precedence; feeding material in general [B65G](#); proportioning in general [G01F](#), [G01G](#); controlling in general [G05](#))}
- B28C 7/0007      . {Pretreatment of the ingredients, e.g. by heating, sorting, grading, drying, disintegrating; Preventing generation of dust}
- B28C 7/0015      .. { Tagging of the ingredients, e.g. by using ingredient identification means like RFID or labels}
- B28C 7/0023      .. {by heating or cooling (during mixing [B28C 5/46](#))}
- B28C 7/003      ... {Heating, e.g. using steam}
- B28C 7/0038      ... {Cooling, e.g. using ice}
- B28C 7/0046      . {Storage or weighing apparatus for supplying ingredients ([B28C 7/04](#) takes precedence)}
- B28C 7/0053      .. {Storage containers, e.g. hoppers, silos, bins ([B28C 7/0084](#) takes precedences)}
- B28C 7/0061      ... {Storage container plant}
- B28C 7/0069      ... {having compartments}
- B28C 7/0076      ... {Parts or details thereof, e.g. opening, closing or unloading means}
- B28C 7/0084      .. {Storage containers or silos mounted on, or specially adapted for transport by, vehicles; Means for erecting containers or silos}
- B28C 7/0092      .. {Stationary storage means having elements to divide the ground in sectors}
- B28C 7/02      . Controlling the operation of the mixing
- B28C 7/022      .. {by measuring the consistency or composition of the mixture, e.g. with supply of a missing component}
- B28C 7/024      ... {by measuring properties of the mixture, e.g. moisture, electrical resistivity, density}
- B28C 7/026      ... {by measuring data of the driving system, e.g. rotational speed, torque, consumed power}
- B28C 7/028      .. {by counting the number of revolutions performed, or by measuring the mixing time}
- B28C 7/04      . Supplying or proportioning the ingredients {(B28C 7/022 takes precedence; forming a predetermined ratio of the components to be mixed, in general [B01F 15/04](#))}
- B28C 7/0404      .. {Proportioning}
- B28C 7/0409      ... {taking regard of the moisture content of the solid ingredients; Moisture indicators}
- B28C 7/0413      ... {two or more flows in predetermined ratio}
- B28C 7/0418      ... {control systems therefor}
- B28C 7/0422      .. {Weighing predetermined amounts of ingredients, e.g. for consecutive delivery}
- B28C 7/0427      ... {using a charging-skip, to be hoisted or tilted, provided with weight-indicating means}
- B28C 7/0431      ... {using a weighing belt or the like}
- B28C 7/0436      ... {Weighing means specially adapted for use in batching plants}

- B28C 7/044 ... {Weighing mechanisms specially adapted therefor; Weighing containers (other containers [B28C 7/0046](#))}
- B28C 7/0445 ... {using a weighing receptacle, the feeding thereof being automatically suspended after a predetermined weight has been obtained ([B28C 7/045](#) takes precedence)}
- B28C 7/045 ... {using a weighing receptacle movable between several positions, e.g. moving vertically, horizontally or rotating about an axis ([B28C 7/0427](#) takes precedence)}
- B28C 7/0454 .. {Volumetric measuring devices, e.g. for consecutively delivering predetermined volumes of ingredients}
- B28C 7/0459 ... {the ingredients being first supplied into measuring chambers, e.g. containers or skips}
- B28C 7/0463 ..... {Measuring chambers or containers therefor (other containers [B28C 7/0046](#))}
- B28C 7/0468 ..... {the measuring chambers being provided on a rotating drum}
- B28C 7/0472 ... {for continuous feeding, e.g. by controlling the velocity of a transporting belt or the thickness of the ingredients on the belt or by regulating the outlet of a hopper ([B28C 7/0477](#) takes precedence)}
- B28C 7/0477 ... {by using conveyer screws}
- B28C 7/0481 .. {Plant for proportioning, supplying or batching ([B28C 7/0436](#), [B28C 7/0811](#) take precedence; plant in general [B28C 9/00](#))}
- B28C 7/0486 ... {the plant being mobile}
- B28C 7/049 ..... {and broken-down for transport}
- B28C 7/0495 ..... {with a frame carrying the supplying, proportioning or batching elements, movable between a horizontal transport position and an inclined working position}
- B28C 7/06 .. Supplying the solid ingredients, e.g. by means of endless conveyers or jiggling conveyers
- B28C 7/061 ... {from stationary storage means having elements for dividing the ground sectorially ([B28C 7/0811](#) takes precedence)}
- B28C 7/062 ... {with a pneumatic or hydraulic conveyer}
- B28C 7/064 ... {Supply from sacks; Sack openers}
- B28C 7/065 ... {with a pivotable charging-bin ([B28C 7/068](#) takes precedence)}
- B28C 7/067 ... {by means of stationary hoppers, chambers or bins from which the material is fed gravitationally, e.g. having agitating means therein (hoppers or bins per se [B28C 7/0053](#))}
- B28C 7/068 ... {having means to elevate or hoist a charging-bin or container}
- B28C 7/08 ... by means of scrapers or skips
- B28C 7/0805 ..... {by means of a barrow or the like}
- B28C 7/0811 ..... {from stationary storage means having elements for dividing the ground sectorially}
- B28C 7/0817 ..... {on an endless chain}
- B28C 7/0823 ..... {using manually-operated cable-pulled drag shovels ([B28C 7/0841](#) takes precedence)}
- B28C 7/0829 ..... {using reciprocating cable-suspended drag shovels}
- B28C 7/0835 ..... {using skips to be hoisted along guides or to be tilted, to charge working-site concrete mixers (proportioning by means of a skip [B28C 7/0427](#), [B28C 7/0459](#))}
- B28C 7/0841 ..... {having mechanisms to fill the skip in its lowest position, e.g. by drag

- shovels, from a hopper}
- B28C 7/0847 . . . . . {the skips being hoisted along vertical or inclined guides}
- B28C 7/0852 . . . . . {and being tilted in their upmost position for discharging them at their upper side}
- B28C 7/0858 . . . . . {the skips being tilted ([B28C 7/0852](#) takes precedence)}
- B28C 7/0864 . . . . . {about a fixed axis}
- B28C 7/087 . . . . . {Parts; Accessories, e.g. safety devices}
- B28C 7/0876 . . . . . {Drives therefor, e.g. winches, hydraulic drives}
- B28C 7/0882 . . . . . {Skips}
- B28C 7/0888 . . . . . {Vibration devices, e.g. for facilitating the emptying of the skips}
- B28C 7/0894 . . . . . {Parts, e.g. winches}
- B28C 7/10 . . . . . by means of rotary members {,e.g. inclinable screws}
- B28C 7/12 . . . . . Supplying or proportioning liquid ingredients
- B28C 7/122 . . . . . {by means of a measuring chamber, e.g. container}
- B28C 7/124 . . . . . {for use with a skip}
- B28C 7/126 . . . . . {Supply means, e.g. nozzles}
- B28C 7/128 . . . . . {Nozzles; Valves; Valve-actuating means}
  
- B28C 7/14 . . . . . Supply means incorporated in, or mounted on, mixers
  
- B28C 7/16 . . . . . Discharge means, {e.g. with intermediate storage of fresh concrete}
- B28C 7/161 . . . . . {with storage reservoirs for temporarily storing the fresh concrete; Charging or discharging devices therefor}
- B28C 7/162 . . . . . {by means of conveyers, other than those comprising skips or containers, e.g. endless belts, screws, air under pressure}
- B28C 7/163 . . . . . {using a pump}
- B28C 7/165 . . . . . {using a fluid, e.g. gas ([B28C 5/06](#), [B28C 5/1261](#) take precedence)}
- B28C 7/166 . . . . . {comprising a lock rotor with pockets for feeding determined quantities of material from a hopper into the driving fluid}
- B28C 7/167 . . . . . {by means of a screw conveyer}
- B28C 7/168 . . . . . {Discharging chutes for concrete mixers}
  
- B28C 9/00** . . . . . **General arrangement or layout of plant** {([B28C 7/0061](#), [B28C 7/0481](#) take precedence)}
  
- B28C 9/002 . . . . . {Mixing systems, i.e. flow charts or diagrams; Making slurries; Involving methodical aspects; Involving pretreatment of ingredients; Involving packaging}
- B28C 9/004 . . . . . {Making slurries, e.g. with discharging means for injecting in a well or projecting against a wall}
  
- B28C 9/006 . . . . . {comprising a multicompart ment silo with the mixing device, e.g. a mixing screw, fitted directly at the underside of the silo, e.g. with proportioning means at the exit of the silo}
  
- B28C 9/008 . . . . . {Plant adapted for mixing materials lying on the ground, e.g. in sectors ([B28C 9/0436](#) takes precedence)}

- B28C 9/02 . for producing mixtures of clay or cement with other materials
- B28C 9/04 . the plant being mobile, {e.g. mounted on a carriage or a set of carriages}{[B28C 5/42](#),  
{[B28C 9/004](#), [B28C 9/006](#)} take precedence)
- B28C 9/0409 .. {and broken-down for transport ([B28C 9/0445](#) takes precedence)}
- B28C 9/0418 ... [N. with a storage silo movable between a horizontal transport position and a vertical working position]
- B28C 9/0427 ... {with a frame carrying the supplying and mixing elements movable between a horizontal transport position and an inclined working position}
- B28C 9/0436 .. {Plant adapted for mixing material lying in sectors on the ground}
- B28C 9/0445 ... {and broken-down for transport}
- B28C 9/0454 .. {Self-contained units, i.e. mobile plants having storage containers for the ingredients ([B28C 9/0472](#), [B28C 9/0481](#) take precedence)}
- B28C 9/0463 ... {with a mixing discharge trough with a free end, e.g. provided with a mixing screw or pivotable about a vertical or horizontal axis}
- B28C 9/0472 .. {provided with two or more carriages for storing the ingredients or for the mixing device, e.g. transportable on rails}
- B28C 9/0481 .. {with means for loading the material from ground level to the mixing device, e.g. with an endless conveyer or a charging skip ([B28C 9/0436](#) takes precedence)}
- B28C 9/049 ... {with at least a storage compartment for one of the ingredients}