

**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

- B28C 3/00**                    **Apparatus or methods for mixing clay with other substances** (producing clay suspensions B28C 1/02)
  
- B28C 5/00**                    **Apparatus or methods for producing mixtures of cement with other substances, e.g. slurries, mortars, porous or fibrous compositions** (controlling the mixing apparatus and supplying the ingredients B28C 7/00 {separating cement from waste concrete B03B 9/063})
  
- B28C 5/003 . {Methods for mixing (B28C 5/386, B28C 5/402 take precedence)}
- B28C 5/006 . . {involving mechanical aspects}
- B28C 5/02 . without using driven mechanical means effecting the mixing (B28C 5/48 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 E04F 21/12; both conveying and distributing concrete E04G 21/04; conveying concrete B65G 53/32; accelerating or decelerating material flow in troughs or tubes B65G 53/58)}
  
- B28C 5/04 . . Gravitational mixing; Mixing by intermingling streams of ingredients ({B28C 5/026 takes precedence } ; ingredients projected by fluid pressure B28C 5/06)
  
- B28C 5/06 . . the mixing being effected by the action of a fluid (in combination with driven mechanical means, producing cellular concrete B28C 5/38)
  
- 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 (B28C 5/145 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 B28C 5/12)}
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 B28C 5/26)}
B28C 5/1812	. . . . .	{with rotating mixing tools}
B28C 5/1818	. . . . .	{Mobile or portable devices, e.g. on a wheelbarrow (B28C 5/1887 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 (B28C 5/1831, B28C 5/185, B28C 5/1856 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 B28C 5/0831)}
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}
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 ([B28C 5/2072](#), [B28C 5/22](#), [B28C 5/24](#) take precedence)}
- B28C 5/2045 . . . . {Parts or components ([drives B28C 5/0831](#))}
- 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}
- 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 multicompartment 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 . . . {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}