

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B28 WORKING CEMENT, CLAY, OR STONE

B28C PREPARING CLAY; PRODUCING MIXTURES CONTAINING CLAY OR CEMENTITIOUS MATERIAL, e.g. PLASTER (preparing material for foundry moulds B22C 5/00)

Note(s)

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

- "cement" or "mixtures of cement with other substances" includes plaster;
- "clay" includes like ceramic compositions.

- | | |
|---|--|
| <p>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)</p> <p>1/02 • for producing or processing clay suspensions (producing or processing suspensions in general B01)</p> <p>1/04 • • Producing suspensions, e.g. by blunging</p> <p>1/06 • • Processing suspensions</p> <p>1/08 • • • Separating suspensions, e.g. for obtaining clay, for removing stones (filtration in general B01D; separation of solids from solids B03, B07)</p> <p>1/10 • for processing clay-containing substances in non-fluid condition (clay slurries B28C 1/02)</p> <p>1/12 • • Storing and conditioning in storage; Specially adapted storage spaces or devices for their filling or emptying (feeding clay to shaping apparatus B28B 13/00)</p> <p>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)</p> <p>1/16 • • • for homogenising, e.g. by mixing, kneading</p> <p>1/18 • • • for comminuting</p> <p>1/20 • • • for separating undesired admixed bodies</p> <p>1/22 • • • combined with means for conditioning by heating, humidifying, or vacuum treatment</p> | <p>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; general arrangement or layout of plant B28C 9/00)</p> <p>5/02 • without using driven mechanical means effecting the mixing (B28C 5/48 takes precedence) [5]</p> <p>5/04 • • Gravitational mixing; Mixing by intermingling streams of ingredients (ingredients projected by fluid pressure B28C 5/06)</p> <p>5/06 • • the mixing being effected by the action of a fluid (in combination with driven mechanical means B28C 5/38)</p> <p>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) [5]</p> <p>5/10 • • Mixing in containers not actuated to effect the mixing</p> <p>5/12 • • • with stirrers sweeping through the materials</p> <p>5/14 • • • the stirrers having motion about a horizontal or substantially horizontal axis</p> <p>5/16 • • • the stirrers having motion about a vertical or steeply inclined axis</p> <p>5/18 • • Mixing in containers to which motion is imparted to effect the mixing</p> <p>5/20 • • • rotating about a horizontal or substantially horizontal axis during mixing, e.g. without independent stirrers</p> <p>5/22 • • • • with stirrers held stationary</p> <p>5/24 • • • • with driven stirrers</p> <p>5/26 • • • rotating about a vertical or steeply inclined axis during the mixing</p> <p>5/28 • • • • without independent stirrers</p> <p>5/30 • • • • with stirrers held stationary</p> <p>5/32 • • • • with driven stirrers</p> <p>5/34 • • Mixing on or by conveyers</p> <p>5/36 • • • Endless-belt mixers</p> <p>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</p> <p>5/40 • Mixing specially adapted for preparing mixtures containing fibres</p> <p>5/42 • Apparatus specially adapted for being mounted on vehicles with provision for mixing during transport (vehicle aspect B60P 3/16)</p> |
|---|--|

Mixing clay or cement with other material

Note(s)

In groups B28C 3/00-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.

- 3/00 Apparatus or methods for mixing clay with other substances** (producing clay suspensions B28C 1/02; general arrangement or layout of plant B28C 9/00)

B28C

- 5/44 • Apparatus specially adapted for drive by muscle power
 - 5/46 • Arrangements for applying super- or sub-atmospheric pressure during mixing; Arrangements for cooling or heating during mixing
 - 5/48 • wherein the mixing is effected by vibrations (mixers with vibrating mechanisms in general B01F 11/00) [5]

 - 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**
 - 7/02 • Controlling the operation of the mixing
 - 7/04 • Supplying or proportioning the ingredients

 - 7/06 • • Supplying the solid ingredients, e.g. by means of endless conveyers or jiggling conveyers
 - 7/08 • • • by means of scrapers or skips
 - 7/10 • • • by means of rotary members
 - 7/12 • • Supplying or proportioning liquid ingredients
 - 7/14 • Supply means incorporated in or mounted on mixers
 - 7/16 • Discharge means
-
- 9/00 General arrangement or layout of plant [2]**
 - 9/02 • for producing mixtures of clay or cement with other materials [2]
 - 9/04 • the plant being mobile (B28C 5/42 takes precedence) [2]