

## 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.

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| <p><b>1/00 Apparatus or methods for obtaining or processing clay</b> (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) <b>[1, 2006.01]</b></p> <p><b>1/02</b> • for producing or processing clay suspensions (producing or processing suspensions in general B01) <b>[1, 2006.01]</b></p> <p><b>1/04</b> • • Producing suspensions, e.g. by blunging <b>[1, 2006.01]</b></p> <p><b>1/06</b> • • Processing suspensions <b>[1, 2006.01]</b></p> <p><b>1/08</b> • • • Separating suspensions, e.g. for obtaining clay, for removing stones (filtration in general B01D; separation of solids from solids B03, B07) <b>[1, 2006.01]</b></p> <p><b>1/10</b> • for processing clay-containing substances in non-fluid condition (clay slurries B28C 1/02) <b>[1, 2006.01]</b></p> <p><b>1/12</b> • • Storing and conditioning in storage; Specially adapted storage spaces or devices for their filling or emptying (feeding clay to shaping apparatus B28B 13/00) <b>[1, 2006.01]</b></p> <p><b>1/14</b> • • 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) <b>[1, 2006.01]</b></p> <p><b>1/16</b> • • • for homogenising, e.g. by mixing, kneading <b>[1, 2006.01]</b></p> <p><b>1/18</b> • • • for comminuting <b>[1, 2006.01]</b></p> <p><b>1/20</b> • • • for separating undesired admixed bodies <b>[1, 2006.01]</b></p> <p><b>1/22</b> • • • combined with means for conditioning by heating, humidifying, or vacuum treatment <b>[1, 2006.01]</b></p> | <p><b>3/00 Apparatus or methods for mixing clay with other substances</b> (producing clay suspensions B28C 1/02; general arrangement or layout of plant B28C 9/00) <b>[1, 2006.01]</b></p> <p><b>5/00 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 B28C 7/00; general arrangement or layout of plant B28C 9/00) <b>[1, 2006.01]</b></p> <p><b>5/02</b> • without using driven mechanical means effecting the mixing (B28C 5/48 takes precedence) <b>[1, 5, 2006.01]</b></p> <p><b>5/04</b> • • Gravitational mixing; Mixing by intermingling streams of ingredients (ingredients projected by fluid pressure B28C 5/06) <b>[1, 2006.01]</b></p> <p><b>5/06</b> • • the mixing being effected by the action of a fluid (in combination with driven mechanical means B28C 5/38) <b>[1, 2006.01]</b></p> <p><b>5/08</b> • 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) <b>[1, 5, 2006.01]</b></p> <p><b>5/10</b> • • Mixing in containers not actuated to effect the mixing <b>[1, 2006.01]</b></p> <p><b>5/12</b> • • • with stirrers sweeping through the materials <b>[1, 2006.01]</b></p> <p><b>5/14</b> • • • • the stirrers having motion about a horizontal or substantially horizontal axis <b>[1, 2006.01]</b></p> <p><b>5/16</b> • • • • the stirrers having motion about a vertical or steeply inclined axis <b>[1, 2006.01]</b></p> <p><b>5/18</b> • • Mixing in containers to which motion is imparted to effect the mixing <b>[1, 2006.01]</b></p> <p><b>5/20</b> • • • rotating about a horizontal or substantially horizontal axis during mixing, e.g. without independent stirrers <b>[1, 2006.01]</b></p> <p><b>5/22</b> • • • • with stirrers held stationary <b>[1, 2006.01]</b></p> <p><b>5/24</b> • • • • with driven stirrers <b>[1, 2006.01]</b></p> <p><b>5/26</b> • • • rotating about a vertical or steeply inclined axis during the mixing <b>[1, 2006.01]</b></p> <p><b>5/28</b> • • • • without independent stirrers <b>[1, 2006.01]</b></p> <p><b>5/30</b> • • • • with stirrers held stationary <b>[1, 2006.01]</b></p> <p><b>5/32</b> • • • • with driven stirrers <b>[1, 2006.01]</b></p> <p><b>5/34</b> • • Mixing on or by conveyors <b>[1, 2006.01]</b></p> <p><b>5/36</b> • • • Endless-belt mixers <b>[1, 2006.01]</b></p> |
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##### 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.

## 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 [1, 2006.01]
- 5/40 • Mixing specially adapted for preparing mixtures containing fibres [1, 2006.01]
- 5/42 • Apparatus specially adapted for being mounted on vehicles with provision for mixing during transport (vehicle aspect B60P 3/16) [1, 2006.01]
- 5/44 • Apparatus specially adapted for drive by muscle power [1, 2006.01]
- 5/46 • Arrangements for applying super- or sub-atmospheric pressure during mixing; Arrangements for cooling or heating during mixing [1, 2006.01]
- 5/48 • wherein the mixing is effected by vibrations (mixers with vibrating mechanisms in general B01F 11/00) [5, 2006.01]
- 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 [1, 2006.01]**
- 7/02 • Controlling the operation of the mixing [1, 2006.01]
- 7/04 • Supplying or proportioning the ingredients [1, 2006.01]
- 7/06 • • Supplying the solid ingredients, e.g. by means of endless conveyors or jiggling conveyors [1, 2006.01]
- 7/08 • • • by means of scrapers or skips [1, 2006.01]
- 7/10 • • • by means of rotary members [1, 2006.01]
- 7/12 • • Supplying or proportioning liquid ingredients [1, 2006.01]
- 7/14 • Supply means incorporated in or mounted on mixers [1, 2006.01]
- 7/16 • Discharge means [1, 2006.01]
- 9/00 **General arrangement or layout of plant [2, 2006.01]**
- 9/02 • for producing mixtures of clay or cement with other materials [2, 2006.01]
- 9/04 • the plant being mobile (B28C 5/42 takes precedence) [2, 2006.01]