

| Symbol           | Typ                 | Titel   |
|------------------|---------------------|---|
| <b>B</b>         | <b>Sektion</b>      | <b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>  |
| <b>B29</b>       | <b>Klasse</b>       | <b>WORKING OF PLASTICS; WORKING OF SUBSTANCES IN A PLASTIC STATE IN GENERAL (processing doughs A21C; working chocolate A23G; casting of metals B22; working cement, clay B28; chemical aspects, <u>see</u> section C, particularly C08; working glass C03B; candle making C11C 5/02; making soap C11D 13/00; manufacture of artificial filaments, threads, fibres, bristles or ribbons D01D, D01F; manufacture of articles from cellulosic fibrous suspensions or from papier-mâche D21J)</b> |
| <b>B29B</b>      | <b>Unterklasse</b>  | <b>PREPARATION OR PRETREATMENT OF THE MATERIAL TO BE SHAPED; MAKING GRANULES OR PREFORMS; RECOVERY OF PLASTICS OR OTHER CONSTITUENTS OF WASTE MATERIAL CONTAINING PLASTICS [4]</b>  |
| <b>B29B 7/00</b> | <b>Hauptgruppe</b>  | <b>Mixing; Kneading (in general B01F; combined with calendering B29C 43/24, with injection B29C 45/46, with extrusion B29C 47/36) [4]</b>   |
| B29B 7/02        | 1-Punkt Untergruppe | . non-continuous, with mechanical mixing or kneading devices, i.e. batch type [4]   |
| B29B 7/04        | 2-Punkt Untergruppe | . . with non-movable mixing or kneading devices [4]   |
| B29B 7/06        | 2-Punkt Untergruppe | . . with movable mixing or kneading devices [4]   |
| B29B 7/08        | 3-Punkt Untergruppe | . . . shaking, oscillating or vibrating [4]   |
| B29B 7/10        | 3-Punkt Untergruppe | . . . rotary [4]  |
| B29B 7/12        | 4-Punkt Untergruppe | . . . . with single shaft [4]   |
| B29B 7/14        | 5-Punkt Untergruppe | . . . . . with screw or helix [4]   |
| B29B 7/16        | 5-Punkt Untergruppe | . . . . . with paddles or arms [4]  |
| B29B 7/18        | 4-Punkt Untergruppe | . . . . with more than one shaft [4]  |
| B29B 7/20        | 5-Punkt Untergruppe | . . . . . with intermeshing devices, e.g. screws [4]  |
| B29B 7/22        | 2-Punkt Untergruppe | . . Component parts, details or accessories; Auxiliary operations [4]   |
| B29B 7/24        | 3-Punkt Untergruppe | . . . for feeding [4]   |
| B29B 7/26        | 3-Punkt Untergruppe | . . . for discharging, e.g. doors [4]   |
| B29B 7/28        | 3-Punkt Untergruppe | . . . for measuring, controlling or regulating, e.g. viscosity control [4]  |
| B29B 7/30        | 1-Punkt Untergruppe | . continuous, with mechanical mixing or kneading devices [4]  |
| B29B 7/32        | 2-Punkt Untergruppe | . . with non-movable mixing or kneading devices [4]   |
| B29B 7/34        | 2-Punkt Untergruppe | . . with movable mixing or kneading devices [4]   |
| B29B 7/36        | 3-Punkt Untergruppe | . . . shaking, oscillating or vibrating [4]   |
| B29B 7/38        | 3-Punkt Untergruppe | . . . rotary (B29B 7/52 takes precedence) [4]   |
| B29B 7/40        | 4-Punkt Untergruppe | . . . . with single shaft [4]   |
| B29B 7/42        | 5-Punkt Untergruppe | . . . . . with screw or helix [4]   |
| B29B 7/44        | 5-Punkt Untergruppe | . . . . . with paddles or arms [4]  |

| Symbol           | Typ                 | Titel  |
|------------------|---------------------|--|
| B29B 7/46        | 4-Punkt Untergruppe | . . . . with more than one shaft [4]   |
| B29B 7/48        | 5-Punkt Untergruppe | . . . . with intermeshing devices, e.g. screws [4]   |
| B29B 7/50        | 4-Punkt Untergruppe | . . . . with rotary casing [4]   |
| B29B 7/52        | 3-Punkt Untergruppe | . . . with rollers or the like, e.g. calenders [4]   |
| B29B 7/54        | 4-Punkt Untergruppe | . . . . with a single roller co-operating with a stationary member [4]                                     |
| B29B 7/56        | 4-Punkt Untergruppe | . . . . with co-operating rollers [4]  |
| B29B 7/58        | 2-Punkt Untergruppe | . . Component parts, details or accessories; Auxiliary operations [4]                                      |
| B29B 7/60        | 3-Punkt Untergruppe | . . . for feeding, e.g. end guides for the incoming material [4]   |
| B29B 7/62        | 3-Punkt Untergruppe | . . . Rollers, e.g. with grooves [4]   |
| B29B 7/64        | 3-Punkt Untergruppe | . . . Stripping the material from the rollers [4]  |
| B29B 7/66        | 3-Punkt Untergruppe | . . . Recycling the material [4]   |
| B29B 7/68        | 3-Punkt Untergruppe | . . . Positioning of rollers [4]   |
| B29B 7/70        | 3-Punkt Untergruppe | . . . Conditioning of rollers, e.g. cleaning [4]   |
| B29B 7/72        | 3-Punkt Untergruppe | . . . Measuring, controlling or regulating [4]   |
| B29B 7/74        | 1-Punkt Untergruppe | . using other mixers or combinations of dissimilar mixers [4]  |
| B29B 7/76        | 2-Punkt Untergruppe | . . with stream impingement mixing head [4]  |
| B29B 7/78        | 2-Punkt Untergruppe | . . by gravity, e.g. falling particle mixers [4]   |
| B29B 7/80        | 1-Punkt Untergruppe | . Component parts, details or accessories; Auxiliary operations (B29B 7/22, B29B 7/58 take precedence) [4] |
| B29B 7/82        | 2-Punkt Untergruppe | . . Heating or cooling [4]   |
| B29B 7/84        | 2-Punkt Untergruppe | . . Venting or degassing [4]   |
| B29B 7/86        | 2-Punkt Untergruppe | . . for working at sub- or superatmospheric pressure [4]   |
| B29B 7/88        | 2-Punkt Untergruppe | . . Adding charges [4]   |
| B29B 7/90        | 3-Punkt Untergruppe | . . . Fillers or reinforcements [4]  |
| B29B 7/92        | 4-Punkt Untergruppe | . . . . Wood chips or wood fibres [4]  |
| B29B 7/94        | 3-Punkt Untergruppe | . . . Liquid charges [4]   |
| <b>B29B 9/00</b> | <b>Hauptgruppe</b>  | <b>Making granules (in general B01); chemical aspects C08J 3/12) [4]</b>                                   |
| B29B 9/02        | 1-Punkt Untergruppe | . by dividing preformed material [4]   |
| B29B 9/04        | 2-Punkt Untergruppe | . . in the form of plates or sheets [4]  |
| B29B 9/06        | 2-Punkt Untergruppe | . . in the form of filamentary material, e.g. combined with extrusion [4]                                  |
| B29B 9/08        | 1-Punkt Untergruppe | . by agglomerating smaller particles [4]   |
| B29B 9/10        | 1-Punkt Untergruppe | . by moulding the material, i.e. treating it in the molten state [4]                                       |
| B29B 9/12        | 1-Punkt Untergruppe | . characterised by structure or composition [4]  |

| Symbol            | Typ                        | Titel  |
|-------------------|----------------------------|--|
| B29B 9/14         | 2-Punkt Untergruppe        | . . fibre-reinforced [4]   |
| B29B 9/16         | 1-Punkt Untergruppe        | . Auxiliary treatment of granules [4]  |
| <b>B29B 11/00</b> | <b>Hauptgruppe</b>         | <b>Making preforms (B29C 61/06 takes precedence) [4]</b>   |
| B29B 11/02        | 1-Punkt Untergruppe        | . by dividing preformed material, e.g. sheets, rods [4]  |
| B29B 11/04        | 1-Punkt Untergruppe        | . by assembling preformed material [4]   |
| B29B 11/06        | 1-Punkt Untergruppe        | . by moulding the material [4]   |
| B29B 11/08        | 2-Punkt Untergruppe        | . . Injection moulding [4]   |
| B29B 11/10        | 2-Punkt Untergruppe        | . . Extrusion moulding [4]   |
| B29B 11/12        | 2-Punkt Untergruppe        | . . Compression moulding [4]   |
| B29B 11/14        | 1-Punkt Untergruppe        | . characterised by structure or composition [4]  |
| B29B 11/16        | 2-Punkt Untergruppe        | . . comprising fillers or reinforcements [4]   |
| <b>B29B 13/00</b> | <b>Hauptgruppe</b>         | <b>Conditioning or physical treatment of the material to be shaped (chemical aspects C08J 3/00) [4]</b>                    |
| B29B 13/02        | 1-Punkt Untergruppe        | . by heating (B29B 13/06, B29B 13/08 take precedence) [4]  |
| B29B 13/04        | 1-Punkt Untergruppe        | . by cooling [4]   |
| B29B 13/06        | 1-Punkt Untergruppe        | . by drying (B29B 13/08 takes precedence) [4]  |
| B29B 13/08        | 1-Punkt Untergruppe        | . by using wave energy or particle radiation [4]   |
| B29B 13/10        | 1-Punkt Untergruppe        | . by grinding, e.g. by triturating; by sieving; by filtering [4]   |
| <b>B29B 15/00</b> | <b>Hauptgruppe</b>         | <b>Pretreatment of the material to be shaped, not covered by groups B29B 7/00-B29B 13/00 [4]</b>                           |
| B29B 15/02        | 1-Punkt Untergruppe        | . of crude rubber, gutta-percha, or similar substances (tapping latex A01G; chemical aspects C08C) [4]                     |
| B29B 15/04        | 2-Punkt Untergruppe        | . . Coagulating devices [4]  |
| B29B 15/06        | 2-Punkt Untergruppe        | . . Washing devices [4]  |
| B29B 15/08        | 1-Punkt Untergruppe        | . of reinforcements or fillers (chemical aspects C08J, C08K) [4]   |
| B29B 15/10        | 2-Punkt Untergruppe        | . . Coating or impregnating (applying liquids in general B05) [4]  |
| B29B 15/12        | 3-Punkt Untergruppe        | . . . of reinforcements of indefinite length [4]   |
| B29B 15/14        | 4-Punkt Untergruppe        | . . . . of filaments or wires [4]  |
| <b>B29B 17/00</b> | <b>Hauptgruppe</b>         | <b>Recovery of plastics or other constituents of waste material containing plastics (chemical recovery C08J 11/00) [4]</b> |
| B29B 17/02        | 1-Punkt Untergruppe        | . Separating plastics from other materials [4]   |
| <i>B29B 17/04</i> | <i>1-Punkt Untergruppe</i> | <i>. Disintegrating plastics ( B29B 9/02 , B29B 11/02 , B29B 13/10 take precedence ) [2006.01]</i>                         |