

**CPC****COOPERATIVE PATENT CLASSIFICATION****B29B****PREPARATION OR PRETREATMENT OF THE MATERIAL TO BE SHAPED; MAKING GRANULES OR PREFORMS; RECOVERY OF PLASTICS OR OTHER CONSTITUENTS OF WASTE MATERIAL CONTAINING PLASTICS****B29B 7/00**

**Mixing; Kneading** ({for preparation of dough [A21C 1/00](#);} in general [B01F](#); combined with calendering [B29C 43/24](#), with injection [B29C 45/46](#), with extrusion [B29C 47/36](#))

- B29B 7/002 . {Methods (chemical aspects [C08J 3/00](#))}
- B29B 7/005 .. {for mixing in batches}
- B29B 7/007 .. {for continuous mixing}
  
- B29B 7/02 . non-continuous, with mechanical mixing or kneading devices, i.e. batch type
- B29B 7/04 .. with non-movable mixing or kneading devices
- B29B 7/06 .. with movable mixing or kneading devices
- B29B 7/08 ... shaking, oscillating or vibrating
- B29B 7/085 .... {by means of axially movable pistons}
- B29B 7/10 ... rotary
- B29B 7/103 .... {with rollers or the like in casings}
- B29B 7/106 .... {using rotary casings}
- B29B 7/12 .... with single shaft
- B29B 7/125 ..... {having a casing closely surrounding the rotor, e.g. for masticating rubber (with more than one shaft [B29B 7/183](#)); Rotors therefor ([B29B 7/14](#), [B29B 7/16](#) take precedence)}
- B29B 7/14 ..... with screw or helix
- B29B 7/16 ..... with paddles or arms
- B29B 7/18 .... with more than one shaft
- B29B 7/183 ..... {having a casing closely surrounding the rotors, e.g. of Banbury type (with single shaft [B29B 7/125](#))}
- B29B 7/186 ..... {Rotors therefor}
- B29B 7/20 ..... with intermeshing devices, e.g. screws
- B29B 7/22 .. Component parts, details or accessories; Auxiliary operations
- B29B 7/24 ... for feeding
- B29B 7/242 .... {in measured doses}
- B29B 7/244 ..... {of several materials}
- B29B 7/246 .... {in mixers having more than one rotor and a casing closely surrounding the rotors, e.g. with feeding plungers}
- B29B 7/248 .... {with plungers for introducing the material, e.g. from below ([B29B 7/246](#) takes precedence)}
- B29B 7/26 ... for discharging, e.g. doors

B29B 7/263	....	{from the underside in mixers having more than one rotor and a casing closely surrounding the rotors}
B29B 7/266	.....	{using sliding doors}
B29B 7/28	...	for measuring, controlling or regulating, e.g. viscosity control {(B29B 7/242 takes precedence)}
B29B 7/283	....	{measuring data of the driving system, e.g. torque, speed, power}
B29B 7/286	....	{measuring properties of the mixture, e.g. temperature, density (B29B 7/283 takes precedence)}
B29B 7/30	.	continuous, with mechanical mixing or kneading devices
B29B 7/32	..	with non-movable mixing or kneading devices
B29B 7/325	...	{Static mixers (in general B01F 5/0602)}
B29B 7/34	..	with movable mixing or kneading devices
B29B 7/36	...	shaking, oscillating or vibrating
B29B 7/365	....	{by means of axially movable pistons}
B29B 7/38	...	rotary (B29B 7/52 takes precedence)
B29B 7/385	....	{fluid mixers}
B29B 7/40	....	with single shaft
B29B 7/401	.....	{having a casing closely surrounding the rotor, e.g. with a plunger for feeding the material (B29B 7/407, B29B 7/42 take precedence)}
B29B 7/402	.....	{using a rotor-stator system with intermeshing elements, e.g. teeth (B29B 7/408, B29B 7/404 take precedence)}
B29B 7/404	.....	{with feeding or valve actuating means, e.g. with cleaning means}
B29B 7/405	.....	{Mixing heads (B29B 7/404, B29B 7/42 take precedence; mixing heads without moving stirrer B29B 7/7457)}
B29B 7/407	.....	{with a casing closely surrounding the rotor, e.g. with conical rotor}
B29B 7/408	.....	{with mixing elements on a rotor co-operating with mixing elements, perpendicular to the axis of the rotor, fixed on a stator}
B29B 7/42	.....	with screw or helix
B29B 7/421	.....	{with screw and additionally other mixing elements on the same shaft, e.g. paddles, discs, bearings, rotor blades of the Banbury type}
B29B 7/422	.....	{with screw sections co-operating, e.g. intermeshing, with elements on the wall of the surrounding casing}
B29B 7/423	.....	{and oscillating axially (in general B01F 11/0057)}
B29B 7/424	.....	{with conical screw surrounded by conical casing}
B29B 7/425	.....	{with screw surrounded by a casing provided with grooves or cavities}
B29B 7/426	.....	{with consecutive casings or screws, e.g. for charging, discharging, mixing}
B29B 7/427	.....	{with independently driven screws rotating about the same axis, e.g. oscillating axially; with axially oscillating screws (B29B 7/423 takes precedence)}
B29B 7/428	.....	{ Parts or accessories, e.g. casings, feeding or discharging means}
B29B 7/429	.....	{Screws(B29B 7/421 takes precedence)}
B29B 7/44	.....	with paddles or arms

B29B 7/46	....	with more than one shaft
B29B 7/465	.....	{each shaft comprising rotor parts of the Banbury type in addition to screw parts}
B29B 7/48	.....	with intermeshing devices, e.g. screws
B29B 7/481	.....	{provided with paddles, gears or discs ( <a href="#">B29B 7/482</a> takes precedence)}
B29B 7/482	.....	{provided with screw parts in addition to other mixing parts, e.g. paddles, gears, discs}
B29B 7/483	.....	{the other mixing parts being discs perpendicular to the screw axis}
B29B 7/484	.....	{with two shafts provided with screws, e.g. one screw being shorter than the other ( <a href="#">B29B 7/482</a> takes precedence)}
B29B 7/485	.....	{with three or more shafts provided with screws}
B29B 7/486	.....	{with screws surrounded by a casing provided with grooves or cavities}
B29B 7/487	.....	{with consecutive casings or screws, e.g. for feeding, discharging, mixing}
B29B 7/488	.....	{Parts, e.g. casings, sealings; Accessories, e.g. flow controlling or throttling devices ( <a href="#">discharging B29B 7/582</a> ; <a href="#">feeding B29B 7/60</a> )}
B29B 7/489	.....	{Screws ( <a href="#">B29B 7/482</a> takes precedence)}
B29B 7/50	....	with rotary casing
B29B 7/52	...	with rollers or the like, e.g. calenders
B29B 7/523	....	{co-operating with casings}
B29B 7/526	.....	{with two or more rollers}
B29B 7/54	....	with a single roller co-operating with a stationary member {other than the casing}
B29B 7/56	....	with co-operating rollers{e.g. with repeated action, i.e. the material leaving a set of rollers being reconducted to the same set or being conducted to a next set}
B29B 7/562	.....	{with means for axially moving the material on the rollers}
B29B 7/564	.....	{at least one of the rollers being provided with helicoidal grooves or ridges, e.g. followed by axial extrusion}
B29B 7/566	.....	{provided with means to take material away from a set of rollers and to reconduct it to the same set; provided with endless belts, e.g. which can be in or out of cooperation with at least one of the rollers}
B29B 7/568	.....	{with consecutive sets of rollers or a train of rollers}
B29B 7/58	..	Component parts, details or accessories; Auxiliary operations
B29B 7/582	...	{for discharging, e.g. doors}
B29B 7/584	...	{for mixers with rollers, e.g. wedges, guides, pressing means, thermal conditioning}
B29B 7/586	....	{Drives}
B29B 7/588	....	{cutting devices, e.g. movable cutting devices ( <a href="#">scrapers for stripping the material from rollers B29B 7/645</a> )}
B29B 7/60	...	for feeding, e.g. end guides for the incoming material {( <a href="#">B29B 7/7615</a> takes precedence; <a href="#">feeding predetermined amounts for mixing in general B01F 15/0216</a> )}

B29B 7/603	....	{in measured doses, e.g. proportioning of several materials}
B29B 7/606	....	{specially adapted for feeding calenders or the like}
B29B 7/62	...	Rollers, e.g. with grooves ( <a href="#">B29B 7/564</a> takes precedence)
B29B 7/625	....	{provided with cooling or heating means}
B29B 7/64	...	Stripping the material from the rollers
B29B 7/645	....	{by means of a scraper moving in the axial direction of the rollers}
B29B 7/66	...	Recycling the material {( <a href="#">B29B 7/566</a> takes precedence)}
B29B 7/68	...	Positioning of rollers
B29B 7/70	...	Conditioning of rollers, e.g. cleaning
B29B 7/72	...	Measuring, controlling or regulating
B29B 7/722	....	{Safety devices}
B29B 7/724	....	{for continuous roller mixers, e.g. calenders ( <a href="#">B29B 7/722</a> takes precedence)}
B29B 7/726	....	{Measuring properties of mixture, e.g. temperature or density ( <a href="#">B29B 7/724</a> takes precedence)}
B29B 7/728	....	{Measuring data of the driving system, e.g. torque, speed, power, vibration ( <a href="#">B29B 7/724</a> takes precedence)}
B29B 7/74	.	using other mixers or combinations of {mixers, e.g. of} dissimilar mixers; {Plant}
B29B 7/7404	..	{Mixing devices specially adapted for foamable substances ( <a href="#">B29B 7/76</a> takes precedence)}
B29B 7/7409	...	{with supply of gas}
B29B 7/7414	....	{with rotatable stirrer, e.g. using an intermeshing rotor-stator system ( <a href="#">B29B 7/7423</a> takes precedence)}
B29B 7/7419	....	{with static or injector mixer elements}
B29B 7/7423	.....	{preceded or followed by rotatable stirring device}
B29B 7/7428	....	{Methodical aspects}
B29B 7/7433	...	{Plants}
B29B 7/7438	..	{Mixing guns, i.e. hand-held mixing units having dispensing means ( <a href="#">B29B 7/761</a> , <a href="#">B29B 7/7678</a> take precedence)}
B29B 7/7442	...	{with driven stirrer}
B29B 7/7447	...	{including means for feeding the components}
B29B 7/7452	...	{for mixing components by spraying them into each other; for mixing by intersecting sheets}
B29B 7/7457	..	{Mixing heads without moving stirrer ( <a href="#">B29B 7/7438</a> , <a href="#">B29B 7/76</a> take precedence)}
B29B 7/7461	..	{Combinations of dissimilar mixers}
B29B 7/7466	..	{Combinations of similar mixers}
B29B 7/7471	..	{Mixers in which the mixing takes place at the inlet of a mould, e.g. mixing chambers situated in the mould opening}
B29B 7/7476	..	{Systems, i.e. flow charts or diagrams; Plants}
B29B 7/748	...	{Plants ( <a href="#">B29B 7/7433</a> , <a href="#">B29B 7/7485</a> , <a href="#">B29B 7/7495</a> take precedence)}
B29B 7/7485	...	{with consecutive mixers, e.g. with premixing some of the components}
B29B 7/749	....	{with stirring means for the individual components before they are mixed together}

- B29B 7/7495 ... {for mixing rubber}
- B29B 7/76 .. {Mixers} with stream-impingement mixing head
- B29B 7/7605 ... {having additional mixing arrangements ([B29B 7/7673](#) takes precedence)}
- B29B 7/761 ... {of gun-type, i.e. hand-held units having dispensing means ([B29B 7/7678](#) takes precedence)}
- B29B 7/7615 ... {characterised by arrangements for controlling, measuring or regulating, e.g. for feeding or proportioning the components}
- B29B 7/7621 .... {involving introducing a gas or another component in at least one of the components}
- B29B 7/7626 .... {using measuring chambers of piston or plunger type ([B29B 7/7621](#) takes precedence; for mixing in general [B01F 15/0454](#))}
- B29B 7/7631 ... {Parts; Accessories ([B29B 7/7684](#) takes precedence)}
- B29B 7/7636 .... { Construction of the feed orifices, bores, ports}
- B29B 7/7642 ..... { Adjustable feed orifices, e.g. for controlling the rate of feeding}
- B29B 7/7647 .... { Construction of the mixing conduit module or chamber part}
- B29B 7/7652 .... { Construction of the discharge orifice, opening or nozzle}
- B29B 7/7657 ..... { Adjustable discharge orifices, openings or nozzle openings, e.g. for controlling the rate of dispensing}
- B29B 7/7663 ... {the mixing head having an outlet tube with a reciprocating plunger, e.g. with the jets impinging in the tube}
- B29B 7/7668 .... {having a second tube intersecting the first one with the jets impinging in the second tube}
- B29B 7/7673 .... {having additional mixing arrangements ([B29B 7/7668](#) takes precedence)}
- B29B 7/7678 .... {of the gun type, i.e. hand-held units}
- B29B 7/7684 .... {Parts; Accessories}
- B29B 7/7689 ..... { Plunger constructions}
- B29B 7/7694 ..... { comprising recirculation channels; ducts formed in the plunger}
- B29B 7/78 .. by gravity, e.g. falling particle mixers
  
- B29B 7/80 . Component parts, details or accessories; Auxiliary operations ([B29B 7/22](#), [B29B 7/58](#) take precedence, {cleaning mixers [B01F 15/00019](#)})
- B29B 7/801 .. {Valves}
- B29B 7/802 .. { Constructions or methods for cleaning the mixing or kneading device (cleaning in general [B08B](#))}
- B29B 7/803 ... { Cleaning of mixers of the gun type, stream-impigement type, mixing heads}
- B29B 7/805 .... { Cleaning of the mixing conduit, module or chamber part}
- B29B 7/806 .... { Cleaning of the discharge opening, e.g. orifice of the dispenser}
- B29B 7/807 .... { Cleaning of the central body of the plunger}
- B29B 7/808 .... { Cleaning of the plunger tip}
- B29B 7/82 .. Heating or cooling
- B29B 7/823 ... {Temperature control}
- B29B 7/826 ... {Apparatus therefor}
- B29B 7/84 .. Venting or degassing {;Removing liquids, e.g. by evaporating components}

- B29B 7/842 . . . {Removing liquids in liquid form}
- B29B 7/845 . . . {Venting, degassing or removing evaporated components in devices with rotary stirrers}
- B29B 7/847 . . . . {Removing of gaseous components before or after mixing}
- B29B 7/86 . . for working at sub- or superatmospheric pressure {(B01F 13/06 takes precedence)}
- B29B 7/88 . . Adding charges, {i.e. additives}
- B29B 7/885 . . . {with means for treating, e.g. milling, the charges }(B29B 7/905 takes precedence)]
- B29B 7/90 . . . Fillers or reinforcements{e.g. fibres}
- B29B 7/905 . . . . {with means for pretreatment of the charges or fibres}
- B29B 7/92 . . . . Wood chips or wood fibres
- B29B 7/94 . . . Liquid charges
- B29B 7/945 . . . . {involving coating particles}

## **B29B 9/00**      **Making granules** (in general [B01J](#); chemical aspects [C08J 3/12](#))

- B29B 9/02 . by dividing preformed material
- B29B 9/04 . . in the form of plates or sheets
- B29B 9/06 . . in the form of filamentary material, e.g. combined with extrusion
- B29B 9/065 . . . {under-water, e.g. underwater pelletizers}
- B29B 9/08 . by agglomerating smaller particles
- B29B 9/10 . by moulding the material, i.e. treating it in the molten state
- B29B 9/12 . characterised by structure or composition
- B29B 2009/125 . . {Micropellets, microgranules, microparticles }
- B29B 9/14 . . fibre-reinforced
- B29B 9/16 . Auxiliary treatment of granules
- B29B 2009/161 . . {Absorbing, i.e. introducing a gas, a liquid or a solid material into the granules }
- B29B 2009/163 . . {Coating, i.e. applying a layer of liquid or solid material on the granule }
- B29B 2009/165 . . {Crystallizing granules}
- B29B 2009/166 . . {Deforming granules to give a special form, e.g. spheroidizing, rounding }
- B29B 2009/168 . . {Removing undesirable residual components, e.g. solvents, unreacted monomers; Degassing }

## **B29B 11/00**      **Making preforms** ([B29C 61/06](#) takes precedence; { combined with blow-moulding [B29C 49/02](#), with thermoforming [B29C 51/02](#); making preforms for manufacturing of light guides [B29D 11/00721](#)})

- B29B 11/02 . by dividing preformed material, e.g. sheets, rods
- B29B 11/04 . by assembling preformed material

- B29B 11/06 . by moulding the material
- B29B 11/08 .. Injection moulding
- B29B 11/10 .. Extrusion moulding
- B29B 11/12 .. Compression moulding
  
- B29B 11/14 . characterised by structure or composition
- B29B 11/16 .. comprising fillers or reinforcement {(non-woven fabrics per se [D04H 1/00](#), [D04H 3/00](#))}
  
- B29B 13/00** **Conditioning or physical treatment of the material to be shaped** (chemical aspects [C08J 3/00](#)){heating, cooling or curing during shaping [B29C 35/00](#); Thermal after-treatment [B29C 71/02](#)}
  
- B29B 2013/002 . {Extracting undesirable residual components, e.g. solvents, unreacted monomers, from material to be moulded }
- B29B 2013/005 . {Degassing undesirable residual components, e.g. gases, unreacted monomers, from material to be moulded }
- B29B 13/007 . {Treatment of sinter powders}
  
- B29B 13/02 . by heating ([B29B 13/06](#), [B29B 13/08](#) take precedence)
- B29B 13/021 .. {Heat treatment of powders}
- B29B 13/022 .. {Melting the material to be shaped}
- B29B 13/023 .. {Half-products, e.g. films, plates}
- B29B 13/024 ... {Hollow bodies, e.g. tubes or profiles}
- B29B 13/025 .... {Tube ends}
- B29B 2013/026 ... {Obtaining a uniform temperature over the whole surface of films or tubes }
- B29B 2013/027 ... {Obtaining a temperature gradient over the surface of films or tubes }
- B29B 2013/028 ... {Obtaining a temperature gradient across the wall thickness of plates or tubes }
  
- B29B 13/04 . by cooling {(cooling moulded articles or half products [B29C 35/16](#))}
- B29B 13/045 .. {of powders or pellets}
  
- B29B 13/06 . by drying ([B29B 13/08](#) takes precedence; {drying moulded articles or half products [B29C 37/0092](#)})
- B29B 13/065 .. {of powder or pellets}
  
- B29B 13/08 . by using wave energy or particle radiation
- B29B 13/10 . by grinding, e.g. by triturating; by sieving; by filtering
  
- B29B 15/00** **Pretreatment of the material to be shaped, not covered by groups [B29B 7/00](#) to [B29B 13/00](#)**



- B29B 15/02 . of crude rubber, gutta-percha, or similar substances ([tapping latex A01G](#); [Chemical aspects C08C](#))
- B29B 15/023 .. {[Breaking up rubber bales](#)}
- B29B 15/026 .. {[Baling of rubber](#)}
- B29B 15/04 .. Coagulating devices
- B29B 15/06 .. Washing devices
- B29B 15/08 . of reinforcements or fillers ([chemical aspects C08J, K](#))
- B29B 15/10 .. Coating or impregnating ([independently of the moulding or shaping step](#))([applying liquids in general B05](#))

**NOTE**

Where the coating or impregnating is combined with moulding the documents are classified in [B29C 53/8066](#), [B29C 70/00](#)

- B29B 15/105 ... { of reinforcement of definite length with a matrix in solid form e.g. powder, fibre or sheet form ([calendering B29C 70/506](#))}
- B29B 15/12 ... of reinforcements of indefinite length
- B29B 15/122 .... {with a matrix in liquid form, e.g. as melt, solution or latex}
- B29B 15/125 ..... {by dipping}
- B29B 15/127 ..... {by spraying}
- B29B 15/14 .... of filaments or wires

**B29B 17/00** **Recovery of plastics or other constituents of waste material containing plastics; ({ volume reduction of waste plastics, e.g. by mechanical compacting or melting disposal of solid waste [B09B](#);} chemical recovery [C08J 11/00](#))**

- B29B 17/0005 . {Direct recuperation and re-use of scrap material during moulding operation, i.e. feed-back of used material}
- B29B 2017/001 . {Pretreating the materials before recovery }
- B29B 2017/0015 .. {Washing, rinsing }
- B29B 2017/0021 .. {Dividing in large parts }
- B29B 17/0026 . {by agglomeration or compacting}
- B29B 2017/0031 .. {Melting the outer surface of compressed waste, e.g. for forming briquets by expelling the compressed waste material through a heated tool }
- B29B 17/0036 .. {of large particles, e.g. beads, granules, pellets, flakes, slices}
- B29B 17/0042 .. {for shaping parts, e.g. multilayered parts with at least one layer containing regenerated plastic}
- B29B 17/0047 .. {Compacting complete waste articles}
- B29B 17/0052 ... {Hollow articles, e.g. bottles}
- B29B 2017/0057 .... {Externally powered deformation tools, e.g. tools being part of relatively big non domestic installations, powered by motors }



B29B 2017/0063	....	{Manually driven deformation tools, e.g. tools being part of domestic installations }
B29B 2017/0068	....	{Softening the hollow articles by heat and causing permanent deformation }
B29B 2017/0073	....	{Removing caps or labels during deformation }
B29B 2017/0078	....	{Maintaining the deflated state, e.g. by mounting original screw lids after deformation }
B29B 2017/0084	....	{Deflating the hollow articles by vacuum; Details of the nozzles used in the vacuum generating devices. }
B29B 2017/0089	.	{Recycling systems, wherein the flow of products between producers, sellers and consumers includes at least a recycling step, e.g. the products being fed back to the sellers or to the producers for recycling purposes }
B29B 2017/0094	.	{Mobile recycling devices, e.g. devices installed in truck trailers }
B29B 17/02	.	Separating plastics from other materials
B29B 2017/0203	..	{Separating plastics from plastics }
B29B 17/0206	..	{Selectively separating reinforcements from matrix material by destroying the interface bound before desintegrating the matrix to particles or powder, e.g. from tires or belts}
B29B 17/021	...	{using local heating of the reinforcement}
B29B 2017/0213	..	{Specific separating techniques }
B29B 2017/0217	...	{Mechanical separating techniques; devices therefor }
B29B 2017/022	....	{Grippers, hooks, piercing needles, fingers, e.g. mounted on robots }
B29B 2017/0224	....	{Screens, sieves }
B29B 2017/0227	....	{Vibratory or shaking tables }
B29B 2017/0231	....	{Centrifugating, cyclones }
B29B 2017/0234	....	{using gravity, e.g. separating by weight differences in a wind sifter }
B29B 2017/0237	....	{using density difference }
B29B 2017/0241	.....	{in gas, e.g. air flow }
B29B 2017/0244	.....	{in liquids }
B29B 2017/0248	....	{Froth flotation, i.e. wherein gas bubbles are attached to suspended particles in an aerated liquid }
B29B 2017/0251	....	{Hydropulping for converting the material under the influence of water into a slurry, e.g. for separating laminated plastic from paper }
B29B 2017/0255	...	{using different melting or softening temperatures of the materials to be separated }
B29B 2017/0258	....	{using heated surfaces for selective softening or melting of at least one plastic ingredient }
B29B 2017/0262	...	{using electrical characteristics }
B29B 2017/0265	....	{Electrostatic separation }
B29B 2017/0268	...	{Separation of metals }
B29B 2017/0272	....	{Magnetic separation }
B29B 2017/0275	...	{using chemical sensors, e.g. analysing gasified constituents }

B29B 2017/0279	...	{Optical identification, e.g. cameras or spectroscopy }
B29B 2017/0282	...	{using information associated with the materials, e.g. labels on products }
B29B 2017/0286	...	{Cleaning means used for separation }
B29B 2017/0289	....	{Washing the materials in liquids }
B29B 2017/0293	...	{Dissolving the materials in gases or liquids }
B29B 2017/0296	....	{Dissolving the materials in aqueous alkaline solutions, e.g. NaOH or KOH }
B29B 17/04	.	Disintegrating plastics, { e.g. by milling }(B29B 9/02, B29B 11/02, B29B 13/10, {B29B 17/02} take precedence)
B29B 17/0404	..	{ to powder}
B29B 17/0408	...	{ using cryogenic systems}
B29B 17/0412	..	{ to large particles, e.g. beads, granules, flakes, slices}
B29B 2017/0416	..	{Cooling the plastics before disintegration, e.g. freezing }
B29B 2017/042	..	{Mixing disintegrated particles or powders with other materials, e.g. with virgin materials }
B29B 2017/0424	..	{Specific disintegrating techniques; devices therefor }
B29B 2017/0428	...	{Jets of high pressure fluid }
B29B 2017/0432	....	{Abrasive blasting, i.e. the jets being charged with abrasives }
B29B 2017/0436	...	{Immersion baths }
B29B 2017/044	...	{Knives }
B29B 2017/0444	...	{Cutting wires, e.g. vibrating wires }
B29B 2017/0448	...	{Cutting discs }
B29B 2017/0452	....	{the discs containing abrasives }
B29B 2017/0456	...	{Pressing tools with calibrated openings, e.g. in sizing plates, for desintegrating solid materials }
B29B 2017/046	...	{Extruder as pressing tool with calibrated die openings for forming and disintegrating pasty or melted material }
B29B 2017/0464	...	{Solid state shear extrusion pulverisation }
B29B 2017/0468	...	{Crushing, i.e. disintegrating into small particles }
B29B 2017/0472	...	{Balls or rollers in a container }
B29B 2017/0476	...	{Cutting or tearing members, e.g. spiked or toothed cylinders or intermeshing rollers }
B29B 2017/048	...	{Cutter-compactors, e.g. of the EREMA type }
B29B 2017/0484	...	{Grinding tools, roller mills or disc mills }
B29B 2017/0488	...	{Hammers or beaters }
B29B 2017/0492	...	{Projecting the material on stationary or moving impact surfaces or plates }
B29B 2017/0496	...	{Pyrolysing the materials }
<b>B29B 2911/00</b>		<b>Indexing scheme related to making preforms for blow-moulding bottles or the like (not used)</b>
B29B 2911/14	.	Layer configuration, geometry, dimensions or physical properties of preforms for blow-moulding bottles or the like (not used)

B29B 2911/14006	..	layer configuration (not used)
B29B 2911/14013	...	monolayered
B29B 2911/1402	....	at neck portion
B29B 2911/14026	....	at flange portion
B29B 2911/14033	....	at body portion
B29B 2911/1404	....	at bottom portion
B29B 2911/14046	...	multilayered
B29B 2911/14053	....	at neck portion
B29B 2911/1406	.....	partially
B29B 2911/14066	....	at flange portion
B29B 2911/14073	.....	partially
B29B 2911/1408	....	at body portion
B29B 2911/14086	.....	partially
B29B 2911/14093	....	at bottom portion
B29B 2911/141	.....	partially
B29B 2911/14106	....	having at least one layer
B29B 2911/14113	.....	having at least two layers
B29B 2911/1412	.....	having at least three layers
B29B 2911/14126	.....	having more than three layers
B29B 2911/14133	....	having at least one layer being injected
B29B 2911/1414	.....	having at least two layers being injected
B29B 2911/14146	.....	having at least three layers being injected
B29B 2911/14153	.....	having more than three layers being injected
B29B 2911/1416	....	having at least one layer being extruded
B29B 2911/14166	.....	having at least two layers being extruded
B29B 2911/14173	.....	having at least three layers being extruded
B29B 2911/1418	.....	having more than three layers being extruded
B29B 2911/14186	....	having at least one layer being thermoformed
B29B 2911/14193	.....	having at least two layers being thermoformed
B29B 2911/142	.....	having at least three layers being thermoformed
B29B 2911/14206	.....	having more than three layers being thermoformed
B29B 2911/14213	....	having at least one layer being compression moulded
B29B 2911/1422	.....	having at least two layers being compression moulded
B29B 2911/14226	.....	having at least three layers being compression moulded
B29B 2911/14233	.....	having more than three layers being compression moulded
B29B 2911/1424	....	having at least one layer being applied using techniques not covered by <a href="#">B29B 2911/14133</a> to <a href="#">B29B 2911/14213</a>
B29B 2911/14246	.....	having at least two layers being applied using said techniques
B29B 2911/14253	.....	having at least three layers being applied using said techniques
B29B 2911/1426	.....	having more than three layers being applied using said techniques

B29B 2911/14266	.....	Type of said techniques not covered by <a href="#">B29B 2911/14133</a> to <a href="#">B29B 2911/14213</a>
B29B 2911/14273	.....	Spray coating
B29B 2911/1428	.....	Dip coating
B29B 2911/14286	.....	Powder coating
B29B 2911/14293	.....	Casting
B29B 2911/143	....	Interaction between at least two layers
B29B 2911/14306	.....	by welding
B29B 2911/14313	.....	by using adhesives
B29B 2911/1432	..	Geometry ( <a href="#">not used</a> )
B29B 2911/14326	...	Variable wall thickness
B29B 2911/14333	...	Variable diameter
B29B 2911/1434	...	Ribs or protrusions
B29B 2911/14346	...	Internal separating wall
B29B 2911/14353	...	Special shape
B29B 2911/1436	....	Special overall shape
B29B 2911/14366	.....	Conical
B29B 2911/14373	.....	Axially asymmetrical
B29B 2911/1438	.....	Elliptic or oval cross-section shape
B29B 2911/14386	.....	Rectangular cross-section shape
B29B 2911/14393	.....	Hexagonal cross-section shape
B29B 2911/144	.....	Shape allows stacking or nesting
B29B 2911/14406	....	Special shape of specific parts of preform
B29B 2911/14413	.....	Special lip, i.e. very top of preform neck
B29B 2911/1442	.....	Special neck
B29B 2911/14426	.....	Wide-mouth
B29B 2911/14433	.....	Closure retaining means
B29B 2911/1444	.....	Threads
B29B 2911/14446	.....	Interrupted threads
B29B 2911/14453	.....	Inner threads
B29B 2911/1446	.....	No threads
B29B 2911/14466	.....	Tamper-evident band retaining ring
B29B 2911/14473	.....	Special flange
B29B 2911/1448	.....	Special body
B29B 2911/14486	.....	Special bottom
B29B 2911/14493	.....	Special sprue, i.e. injection mark
B29B 2911/145	.....	Special pinch-off portion
B29B 2911/14506	...	Auxiliary parts or inserts
B29B 2911/14513	....	Handle
B29B 2911/1452	....	Closure

B29B 2911/14526	....	Transport means
B29B 2911/14533	....	Dispensing spout
B29B 2911/1454	....	Parts to assist orientation of preform, e.g. in mould
B29B 2911/14546	.....	at neck portion
B29B 2911/14553	.....	at flange portion
B29B 2911/1456	.....	at body portion
B29B 2911/14566	.....	at bottom portion
B29B 2911/14573	....	Preform, i.e. neck, flange, body and bottom, made of several individual parts
B29B 2911/1458	.....	Finish neck ring
B29B 2911/14586	..	Mentioned dimensions (not used)
B29B 2911/14593	...	Wall thickness
B29B 2911/146	....	of the lip, i.e. the very top of the preform neck
B29B 2911/14606	....	of the neck
B29B 2911/14613	....	of the threads
B29B 2911/1462	....	of the tamper-evident band retaining ring
B29B 2911/14626	....	of the flange
B29B 2911/14633	....	of the body
B29B 2911/1464	....	of the bottom
B29B 2911/14646	....	of a layer
B29B 2911/14653	...	Diameter, D
B29B 2911/1466	....	of the lip, i.e. the very top of the preform neck
B29B 2911/14666	....	of the neck
B29B 2911/14673	....	of the threads
B29B 2911/1468	....	of the tamper-evident band retaining ring
B29B 2911/14686	....	of the flange
B29B 2911/14693	....	of the body
B29B 2911/147	....	of the bottom
B29B 2911/14706	....	of a layer
B29B 2911/14713	...	Height, length, L
B29B 2911/1472	....	of the lip, i.e. the very top of the preform neck
B29B 2911/14726	....	of the neck
B29B 2911/14733	....	of the threads
B29B 2911/1474	....	of the tamper-evident band retaining ring
B29B 2911/14746	....	of the flange
B29B 2911/14753	....	of the body
B29B 2911/1476	....	of the bottom
B29B 2911/14766	....	of a layer
B29B 2911/14773	...	Ratio L/D
B29B 2911/1478	...	Angle
B29B 2911/14786	....	of the lip, i.e. the very top of the preform neck

<a href="#">B29B 2911/14793</a>	....	of the neck
<a href="#">B29B 2911/148</a>	....	of the threads
<a href="#">B29B 2911/14806</a>	....	of the tamper-evident band retaining ring
<a href="#">B29B 2911/14813</a>	....	of the flange
<a href="#">B29B 2911/1482</a>	....	of the body
<a href="#">B29B 2911/14826</a>	....	of the bottom
<a href="#">B29B 2911/14833</a>	....	of a layer
<a href="#">B29B 2911/1484</a>	...	Curvature, e.g. radius
<a href="#">B29B 2911/14846</a>	....	of the lip, i.e. the very top of the preform neck
<a href="#">B29B 2911/14853</a>	....	of the neck
<a href="#">B29B 2911/1486</a>	....	of the threads
<a href="#">B29B 2911/14866</a>	....	of the tamper-evident band retaining ring
<a href="#">B29B 2911/14873</a>	....	of the flange
<a href="#">B29B 2911/1488</a>	....	of the body
<a href="#">B29B 2911/14886</a>	....	of the bottom
<a href="#">B29B 2911/14893</a>	....	of a layer
<a href="#">B29B 2911/149</a>	..	Mentioned values not covered by <a href="#">B29B 2911/14586</a>
<a href="#">B29B 2911/14906</a>	...	Crystallinity
<a href="#">B29B 2911/14913</a>	....	at the neck portion
<a href="#">B29B 2911/1492</a>	....	at the flange portion
<a href="#">B29B 2911/14926</a>	....	at the body portion
<a href="#">B29B 2911/14933</a>	....	at the bottom portion
<a href="#">B29B 2911/1494</a>	...	Surface roughness
<a href="#">B29B 2911/14946</a>	....	at the neck portion
<a href="#">B29B 2911/14953</a>	....	at the flange portion
<a href="#">B29B 2911/1496</a>	....	at the body portion
<a href="#">B29B 2911/14966</a>	....	at the bottom portion
<a href="#">B29B 2911/14973</a>	...	Optical properties
<a href="#">B29B 2911/1498</a>	...	Weight
<a href="#">B29B 2911/14986</a>	...	Composition
<a href="#">B29B 2911/14993</a>	....	Recycled material