

**CPC****COOPERATIVE PATENT CLASSIFICATION****B29D**

**PRODUCING PARTICULAR ARTICLES FROM PLASTICS OR FROM SUBSTANCES IN A PLASTIC STATE** ([making granules B29B 9/00](#); [making preforms B29B 11/00](#))

**B29D 1/00**

**Producing articles with screw-threads**

B29D 1/005

- . {[fibre reinforced](#)}

**B29D 5/00**

**Producing elements of slide fasteners; Combined making and attaching of elements of slide fasteners**

B29D 5/02

- . the fasteners having separate interlocking members

B29D 5/04

- . the interlocking members being formed by continuous meander of filamentary material

B29D 5/06

- . the interlocking members being formed by continuous helix

B29D 5/08

- . the interlocking members being formed by profiled or castellated edge of a stringer

B29D 5/10

- . the interlocking members being formed by continuous profiled strip

**B29D 7/00**

**Producing flat articles, e.g. films or sheets** ([B29D 24/00 takes precedence](#))

B29D 7/01

- . Films or sheets

**B29D 2009/00**

**IPC7 Producing layered products**

**B29D 11/00**

**Producing optical elements, e.g. lenses or prisms** ([grinding or polishing of optical elements B24B](#); [constructional form of optical elements G02B](#); { [optical parts of spectacles G02C 7/00](#)})

B29D 11/00009

- . { [Production of simple or compound lenses](#)}

B29D 11/00019

- .. {[with non-spherical faces, e.g. toric faces](#)}

B29D 11/00028

- .. {[Bifocal lenses; Multifocal lenses](#)}

B29D 11/00038

- .. { [Production of contact lenses](#)}

B29D 11/00048

- ... {[composed of parts with dissimilar composition](#) ([B29D 11/00057 takes precedence](#))}

B29D 11/00057

- ... {[characterised by the shape or surface condition of the edge, e.g. flashless, burrless, smooth](#)}

B29D 11/00067

- ... {[Hydrating contact lenses](#)}

B29D 11/00076

- ... {[enabling passage of fluids, e.g. oxygen, tears, between the area under the lens and the lens exterior](#)}

B29D 11/00086

- ... {[methods for matching the anterior surface of the contact lens to the shape of an eyeball](#)}

B29D 11/00096

- ... { [for delivering compositions, e.g. drugs to the eye](#)}

B29D 11/00105

- ... { [covering a large part of the cornea](#)}

B29D 11/00115

- ... {[made by rotational casting](#)}

B29D 11/00125

- ... {[Auxiliary operations, e.g. removing oxygen from the mould, conveying moulds from a storage to the production line in an inert atmosphere](#)}

B29D 11/00134

- .... { [Curing of the contact lens material](#)}

B29D 11/00144	.....	{ wherein the lens material is not fully polymerized, e.g. by leaving an unpolymerized volume}
B29D 11/00153	.....	{ Differential curing, e.g. by differential radiation}
B29D 11/00163	.....	{ Movable masks or shutters, e.g. to vary the exposure}
B29D 11/00173	....	{ Conveying moulds}
B29D 11/00182	.....	{ using carrier plates}
B29D 11/00192	....	{ Demoulding, e.g. separating lenses from mould halves}
B29D 11/00201	.....	{ using cooling means}
B29D 11/00211	.....	{ using heating means}
B29D 11/00221	.....	{ using prying means}
B29D 11/0023	....	{ Transferring contact lenses}
B29D 11/0024	.....	{ using a vacuum suction gripper}
B29D 11/0025	....	{ Removing impurities from contact lenses, e.g. leaching}
B29D 11/00259	...	{Plants for the production of contact lenses}
B29D 11/00269	..	{Fresnel lenses}
B29D 11/00278	..	{Lenticular sheets ( <a href="#">B29D 11/00269</a> takes precedence)}
B29D 11/00288	...	{ made by a rotating cylinder}
B29D 11/00298	...	{ Producing lens arrays}
B29D 11/00307	...	{ Producing lens wafers}
B29D 11/00317	..	{ Production of lenses with markings or patterns}
B29D 11/00326	...	{ having particular surface properties, e.g. a micro pattern}
B29D 11/00336	.....	{ by making depressions in the lens surfaces}
B29D 11/00346	...	{ having nano size structures or features, e.g. fillers}
B29D 11/00355	..	{with a refractive index gradient}
B29D 11/00365	..	{ Production of microlenses ( <a href="#">lenticular sheets B29D 11/00278</a> )}
B29D 11/00375	...	{ by moulding lenses in holes through a substrate}
B29D 11/00384	...	{ Local shaping by heating, e.g. local irradiation causing expansion}
B29D 11/00394	...	{ Producing solid immersion lenses [SIL]}
B29D 11/00403	..	{ Producing compound lenses}
B29D 11/00413	..	{made by moulding between two mould parts which are not in direct contact with one another, e.g. comprising a seal between or on the edges ( <a href="#">B29D 11/00019</a> to <a href="#">B29D 11/00355</a> , <a href="#">B29D 11/00423</a> , <a href="#">B29D 11/00432</a> take precedence)}
B29D 11/00423	..	{Plants for the production of simple or compound lenses ( <a href="#">B29D 11/00259</a> takes precedence)}
B29D 11/00432	..	{Auxiliary operations, e.g. machines for filling the moulds ( <a href="#">B29D 11/00125</a> takes precedence)}
B29D 11/00442	...	{Curing the lens material}
B29D 11/00451	...	{ Changing a shape by remelting}
B29D 11/00461	...	{ Adjusting the refractive index e.g. after implanting}
B29D 11/00471	..	{made by rotational casting ( <a href="#">B29D 11/00115</a> takes precedence)}
B29D 11/0048	..	{ Moulds for lenses ( <a href="#">moulds for plastic articles in general B29C 33/00</a> )}

- B29D 11/0049 . . . { Double sided moulds}
- B29D 11/005 . . . { having means for aligning the front and back moulds}
- B29D 11/00509 . . . . { to make toric lenses}
- B29D 11/00519 . . . { Reusable moulds}
- B29D 11/00528 . . . { Consisting of two mould halves joined by an annular gasket}
- B29D 11/00538 . . . { Feeding arrangements}
- B29D 11/00548 . . . { with surfaces formed by films}
- B29D 11/00557 . . . { with deformable mould walls, e.g. to make lenses with different shapes}
- B29D 11/00567 . . . { wherein the mould forms part of the final package for lenses}
- B29D 11/00576 . . . { with means to engage flash, e.g. HEMA ring}
- B29D 11/00586 . . . . { and removing the flash or HEMA ring}
- B29D 11/00596 . {Mirrors}
- B29D 11/00605 . { Production of reflex reflectors}
- B29D 11/00615 . . {moulded by partially embedding reflective elements, e.g. glass beads, into the surface of a support, e.g. to make prefabricated road markings (dispensing reflective beads on road markings in situ [E01C 23/163](#))}
- B29D 11/00625 . . { Moulds for reflex reflectors (moulds for plastic articles in general [B29C 33/00](#))}
- B29D 11/00634 . { Production of filters}
- B29D 11/00644 . . { polarizing}
- B29D 11/00653 . . { photochromic}
- B29D 11/00663 . { Production of light guides}
- B29D 11/00673 . . {Supports for light guides}
- B29D 11/00682 . . {with a refractive index gradient}
- B29D 11/00692 . . { combined with lenses}
- B29D 11/00701 . . { having an intermediate layer between core and cladding}
- B29D 11/00711 . . { by shrinking the sleeve or cladding onto the core}
- B29D 11/00721 . . {involving preforms for the manufacture of light guides}
- B29D 11/0073 . {Optical laminates}

#### **NOTE**

Classification in this group must be supplemented, in so far as any product is concerned, by classification in [B32B](#)

- B29D 11/0074 . { Production of other optical elements not provided for in [B29D 11/00009-B29D 11/0073](#)}
- B29D 11/0075 . . {Connectors for light guides}
- B29D 11/00759 . . {Branching elements for light guides}
- B29D 11/00769 . . { Producing diffraction gratings}
- B29D 11/00778 . . { Producing hyperlenses, superlenses or "perfect" lenses}
- B29D 11/00788 . . { Producing optical films}
- B29D 11/00798 . . { Producing diffusers}
- B29D 11/00807 . . { Producing lenses combined with electronics, e.g. chips}

B29D 11/00817	... { Producing electro-active lenses or lenses with energy receptors, e.g. batteries or antennas}
B29D 11/00826	... { with energy receptors for wireless energy transmission}
B29D 11/00836	.. { Producing non-circular, e.g. elliptic lenses}
B29D 11/00846	.. { Producing zero power lenses}
B29D 11/00855	.. { Producing cylindrical lenses}
B29D 11/00865	. { Applying coatings; tinting; colouring (printing, marking or copying processes <a href="#">B41M</a> ; identification in general <a href="#">G09F 3/00</a> ; producing decorative effects in general <a href="#">B44C</a> ; positioning or marking of lenses <a href="#">B24B 13/0055</a> )}
B29D 11/00875	.. {on light guides}
B29D 11/00884	.. { Spin coating}
B29D 11/00894	.. { colouring or tinting}
B29D 11/00903	... { on the surface}
B29D 11/00913	... {full body; edge-to-edge}
B29D 11/00923	.. {on lens surfaces for colouring or tinting (printing or marking in general <a href="#">B41M</a> )}
B29D 11/00932	. {Combined cutting and grinding thereof}
B29D 11/00942	.. {where the lens material is mounted in a support for mounting onto a cutting device, e.g. a lathe, and where the support is of machinable material, e.g. plastics}
B29D 11/00951	. { Measuring, controlling or regulating}
B29D 11/00961	.. { using microprocessors or computers}
B29D 11/00971	... { using CNC machining to make mould surfaces}
B29D 11/0098	.. { Inspecting lenses}
B29D 11/0099	... { while still attached to the mould}
B29D 11/02	. Artificial eyes from organic plastic material {(implantable eye parts, artificial eyes <a href="#">A61F 2/14</a> )}
B29D 11/023	.. {Implants for natural eyes}
B29D 11/026	... { Comprising more than one lens}
<b>B29D 12/00</b>	<b>Producing frames</b>
B29D 12/02	. Spectacle frames (constructional form <a href="#">G02C</a> )
<b>B29D 15/00</b>	<b>Producing gear wheels or similar articles with grooves or projections, e.g. control knobs</b>
<b>B29D 16/00</b>	<b>Producing articles with corrugations (<a href="#">B29D 23/18</a> takes precedence)</b>
<b>B29D 17/00</b>	<b>Producing carriers of records containing fine grooves or impressions, e.g. disc records for needle playback, cylinder records (recording sound or other information using formed grooves or the equivalent <a href="#">G11B</a>); Producing record discs from master stencils</b>
B29D 17/002	. {Producing phonograph records}
B29D 17/005	. {Producing optically read record carriers, e.g. optical discs}
B29D 17/007	.. {Forming the relief pattern on a support larger than the record}
<b>B29D 19/00</b>	<b>Producing buttons or semi-finished parts of buttons</b>

B29D 19/04	<ul style="list-style-type: none"> <li>by cutting, milling, turning, stamping, or perforating moulded parts; Surface treatment of buttons</li> </ul>
B29D 19/06	<ul style="list-style-type: none"> <li>Devices for feeding semi-finished parts to the processing machines</li> </ul>
B29D 19/08	<ul style="list-style-type: none"> <li>Making holes in buttons or in semi-finished parts thereof</li> </ul>
<b>B29D 21/00</b>	<b>Producing hair combs or similar toothed or slotted articles</b>
B29D 21/04	<ul style="list-style-type: none"> <li>by sawing, milling, cutting, or similar operations</li> </ul>
B29D 21/06	<ul style="list-style-type: none"> <li>Polishing</li> </ul>
<b>B29D 22/00</b>	<b>Producing hollow articles</b> ( <a href="#">tubular articles B29D 23/00</a> ; <a href="#">pneumatic tyres B29D 30/00</a> )
B29D 22/003	<ul style="list-style-type: none"> <li>{Containers for packaging, storing or transporting, e.g. bottles, jars, cans, barrels, tanks}</li> </ul>
B29D 22/006	<ul style="list-style-type: none"> <li>{Hot water bottles}</li> </ul>
B29D 22/02	<ul style="list-style-type: none"> <li>Inflatable articles</li> </ul>
B29D 22/023	<ul style="list-style-type: none"> <li>{ Air springs; Air bellows (<a href="#">construction of fluid springs F16F 9/00</a>)}</li> </ul>
B29D 22/026	<ul style="list-style-type: none"> <li>{ Ring shaped inner tubes with ends (<a href="#">endless inner tubes B29D 23/24</a>)}</li> </ul>
B29D 22/04	<ul style="list-style-type: none"> <li>Spherical articles, e.g. balls (<a href="#">B29D 22/02</a> takes precedence)</li> </ul>
<b>B29D 23/00</b>	<b>Producing tubular articles</b> ( <a href="#">B29D 24/00</a> takes precedence)
B29D 23/001	<ul style="list-style-type: none"> <li>{ Pipes; Pipe joints (<a href="#">pleated hoses B29D 23/18</a>)}</li> </ul>
B29D 23/003	<ul style="list-style-type: none"> <li>{ Pipe joints, e.g. straight joints}</li> </ul>
B29D 23/005	<ul style="list-style-type: none"> <li>{ provided with electrical wiring}</li> </ul>
B29D 23/006	<ul style="list-style-type: none"> <li>{ Elbows}</li> </ul>
B29D 23/008	<ul style="list-style-type: none"> <li>{ T-joints}</li> </ul>
B29D 23/14	<ul style="list-style-type: none"> <li>Cigar or cigarette holders</li> </ul>
B29D 23/18	<ul style="list-style-type: none"> <li>Pleated {or <a href="#">corrugated</a>} hoses</li> </ul>
B29D 23/20	<ul style="list-style-type: none"> <li>Flexible squeeze tubes, e.g. for cosmetics</li> </ul>
B29D 23/24	<ul style="list-style-type: none"> <li>Endless tubes, e.g. inner tubes for pneumatic tyres {(producing ring shaped inner tubes with ends <a href="#">B29D 22/026</a>; inflatable inner tubes for tyres <a href="#">B60C 5/00</a>)}</li> </ul>
<b>B29D 24/00</b>	<b>Producing articles with hollow walls</b> {( <a href="#">B29D 99/0028</a> takes precedence)}
B29D 24/001	<ul style="list-style-type: none"> <li>{formed of hollow ridges or ribs, e.g. separate ridges; continuous corrugated structure (<a href="#">B29D 24/008</a> takes precedence)}</li> </ul>
B29D 24/002	<ul style="list-style-type: none"> <li>{ formed with structures, e.g. cores placed between two plates or sheets, e.g. partially filled (<a href="#">totally filled B29D 99/0021</a>)}</li> </ul>
B29D 24/004	<ul style="list-style-type: none"> <li>{the structure having vertical or oblique ribs}</li> </ul>
B29D 24/005	<ul style="list-style-type: none"> <li>{the structure having joined ribs, e.g. honeycomb}</li> </ul>
B29D 24/007	<ul style="list-style-type: none"> <li>{and a chamfered edge}</li> </ul>
B29D 24/008	<ul style="list-style-type: none"> <li>{the structure having hollow ridges, ribs or cores}</li> </ul>
<b>B29D 25/00</b>	<b>Producing frameless domes</b>
<b>B29D 28/00</b>	<b>Producing nets or the like, { e.g. meshes, lattices}</b> (by knotting <a href="#">D04G</a> )
B29D 28/005	<ul style="list-style-type: none"> <li>{Reticulated structure comprising reinforcements of substantial or continuous length}</li> </ul>

**B29D 29/00****Producing belts or bands**

- B29D 29/06 . Conveyer belts
- B29D 29/08 . Toothed driving belts
- B29D 29/085 .. {Double-toothed driving belts}
- B29D 29/10 . Driving belts having wedge-shaped cross-section
- B29D 29/103 .. {Multi-ribbed driving belts}
- B29D 29/106 .. {Cogged driving belts}

**B29D 30/00**
**Producing pneumatic or solid tyres or parts thereof** (producing inner tubes [B29D 23/24](#); constructional form of tyres or parts thereof [B60C](#); connection of valves to inflatable elastic bodies [B60C 29/00](#); testing of tyres [G01M 17/02](#))

- B29D 30/0005 . {Pretreatment of tyres or parts thereof, e.g. preheating, irradiation, precuring}
- B29D 2030/0011 .. { Surface activation of tyres or parts thereof, e.g. by plasma treatment}
- B29D 30/0016 . { Handling tyres or parts thereof, e.g. supplying, storing, conveying ([B29D 30/2607](#) takes precedence; loading and unloading vulcanizing presses [B29D 30/0603](#))}
- B29D 2030/0022 .. { Handling green tyres, e.g. transferring or storing between tyre manufacturing steps}
- B29D 2030/0027 .. { Handling cured tyres, e.g. transferring or storing after vulcanizing}
- B29D 2030/0033 .. { Rotating tyres or their components, e.g. carcasses, belt-tread packages, beads and the like, around their axis, i. e. for preventing deformation}
- B29D 2030/0038 .. { Handling tyre parts or semi-finished parts, excluding beads, e.g., storing, transporting, transferring ([B29D 2030/0044](#) takes precedence)}
- B29D 2030/0044 .. { Handling tyre beads, e.g., storing, transporting, transferring and supplying to the toroidal support or to the drum}
- B29D 30/005 . { General arrangement or lay-out of plants for the processing of tyres or parts thereof (Round cores or cylindrical drums arranged for a single sequence of tire building operations [B29D 30/10](#), [B29D 30/20](#); Vulcanization presses [B29D 30/0601](#))}
- B29D 2030/0055 .. { Optimization of the cycle times of the tyre manufacturing process, e.g. adaptation of the tyre building process to the vulcanization process}
- B29D 30/0061 . { Accessories, details or auxiliary operations not otherwise provided for}
- B29D 2030/0066 .. { Tyre quality control during manufacturing}
- B29D 2030/0072 .. { Attaching fasteners to tyres, e.g. patches, in order to connect devices to tyres}
- B29D 2030/0077 .. { Directly attaching monitoring devices to tyres before or after vulcanization, e.g. microchips}
- B29D 2030/0083 .. { Attaching monitoring devices to tyres before or after vulcanization by inserting them inside tyre cavities}
- B29D 2030/0088 .. { Adaptive tyres, i.e. the properties of the tyres, e.g. the stiffness, being changeable during use}
- B29D 2030/0094 .. { Tyres been capable of generating, e.g. recovering, energy}
- B29D 30/02 . Solid tyres
- B29D 30/04 . Resilient fillings for rubber tyres; Filling tyres therewith
- B29D 30/06 . Pneumatic tyres or parts thereof {(e.g. produced by casting, moulding, compression moulding, injection moulding, centrifugal casting)}
- B29D 30/0601 .. {Vulcanising tyres; Vulcanising presses for tyres}

B29D 30/0602	...	{the vulcanising medium being in direct contact with the tyre}
B29D 30/0603	...	{Loading or unloading the presses}
B29D 30/0605	...	{Vulcanising presses characterised by moulds integral with the presses having radially movable sectors}
B29D 30/0606	...	{Vulcanising moulds not integral with vulcanising presses}
B29D 2030/0607	.....	{Constructional features of the moulds ( <a href="#">moulds or cores in general B29C 33/00</a> )}
B29D 2030/0609	.....	{the moulds being made of a plurality of laminations, e.g. thin plates, adjacent one another, so as to create the moulding cavity }
B29D 2030/061	.....	{Means for forming passages under the tread surface, e.g. undercuts, holes, channels, grooves }
B29D 2030/0612	.....	{Means for forming recesses or protrusions in the tyres, e.g. grooves or ribs, to create the tread or sidewalls patterns }
B29D 2030/0613	.....	{Means, e.g. sipes or blade-like elements, for forming narrow recesses in the tyres, e.g. cuts or incisions for winter tyres }
B29D 2030/0614	.....	{porous moulds, e.g. sintered materials ( <a href="#">porous moulds in general B29C 33/3814</a> )}
B29D 2030/0616	.....	{Surface structure of the mould e.g. roughness, arrangement of slits, grooves or channels }
B29D 2030/0617	.....	{Venting devices, e.g. vent plugs or inserts }
B29D 2030/0618	.....	{Annular elements, e.g. rings, for moulding the tyre shoulder areas}
B29D 2030/062	.....	{Means for sealing the tyre against the mould in the bead areas }
B29D 2030/0621	.....	{to seal the bead portions against the mould i. e. by using pressing devices }
B29D 2030/0622	.....	{the pressing devices being collapsable, e.g. annular elements consisting of a plurality of sectors }
B29D 2030/0623	.....	{the pressing devices being flexible, e.g. annular elements being relatively elastic and deformable }
B29D 2030/0625	.....	{the pressing devices being substantially rigid }
B29D 2030/0626	.....	{the pressing devices being one-piece devices }
B29D 2030/0627	.....	{the pressing devices being ring-shaped }
B29D 30/0629	....	{with radially movable sectors}
B29D 2030/063	.....	{the moulds being split in upper and lower halves }
B29D 2030/0631	.....	{Means for forcing adjacent mould sectors away one from another, e.g. using springs or the like, to create repulsive forces }
B29D 30/0633	...	{After-treatment specially adapted for vulcanising tyres}
B29D 2030/0634	....	{Measuring, calculating, correcting tyre uniformity, e.g. correcting RFV }
B29D 2030/0635	.....	{Measuring and calculating tyre uniformity, e.g. using mathematical methods }
B29D 2030/0637	.....	{Correcting by adding material }
B29D 2030/0638	.....	{Correcting by removing material, e.g. by grinding }
B29D 2030/0639	.....	{Correcting by heat treatments }
B29D 2030/0641	.....	{Correcting by restraining tyre deformation }
B29D 2030/0642	.....	{Correcting by stretching }



B29D 30/0643	....	{Cooling during post cure inflation; Post cure inflators used therefor}
B29D 30/0645	...	{ Devices for inserting vulcanising cores, i.e. bladders, into the tyres; Closing the press in combination herewith}
B29D 2030/0646	....	{Attaching to, or removing the vulcanizing cores or bladders from the center mechanisms }
B29D 2030/0647	....	{Supporting or transferring tyres using an assembly of a bladder and side rings }
B29D 30/0649	...	{ Devices for removing vulcanising cores, i.e. bladders, from the tyres; Opening the press in combination herewith}
B29D 30/065	...	{ Tyre-vulcanising presses with two or more moulds, e.g. stacked upon each other}
B29D 2030/0651	....	{the moulds being arranged side by side, or in a circle }
B29D 2030/0653	....	{Exchanging moulds in the presses }
B29D 30/0654	...	{ Flexible cores therefor, e.g. bladders, bags, membranes, diaphragms (elastic cores or mandrels for shaping of plastics <a href="#">B29C 33/505</a> ; bags for isostatic pressing in compression moulding <a href="#">B29C 43/12</a> , <a href="#">B29C 43/3642</a> )}
B29D 2030/0655	....	{Constructional or chemical features of the flexible cores }
B29D 2030/0657	....	{Removing the vulcanizing media from the flexible cores, e.g. draining or evacuating }
B29D 2030/0658	....	{Venting devices for the flexible cores }
B29D 2030/0659	....	{Details or accessories for the flexible cores not otherwise provided for }
B29D 30/0661	...	{ Rigid cores therefor, e.g. annular or substantially toroidal cores (cores for building tyres <a href="#">B29D 30/12</a> ; drums for building tyres <a href="#">B29D 30/24</a> )}
B29D 30/0662	...	{ Accessories, details or auxiliary operations}
B29D 2030/0663	....	{Mould maintenance, e.g. cleaning, washing, repairing }
B29D 2030/0665	....	{Measuring, calculating and correcting tyre uniformity before vulcanization }
B29D 2030/0666	....	{Heating by using fluids (heating, cooling or curing using liquids, gas or steam <a href="#">B29C 35/04</a> )}
B29D 2030/0667	.....	{Circulating the fluids, e.g. introducing and removing them into and from the moulds; devices therefor }
B29D 2030/0669	.....	{the fluids being circulated by a turbine type pump associated with the mould, e.g. positioned in the mould }
B29D 2030/067	.....	{the vulcanizing fluids being gases or vapours }
B29D 2030/0671	.....	{the vulcanizing fluids being liquids }
B29D 2030/0673	.....	{the vulcanizing fluids being combinations of different kinds of fluids, e.g. steam and nitrogen }
B29D 2030/0674	.....	{Heating by using non-fluid means, e.g. electrical heating }
B29D 2030/0675	....	{Controlling the vulcanization processes }
B29D 2030/0677	.....	{Controlling temperature differences }
B29D 30/0678	..	{Injection moulding specially adapted for tyres or parts thereof (injection moulding in general <a href="#">B29C 45/00</a> )}
B29D 30/0679	..	{Centrifugal casting specially adapted for tyres or parts thereof (centrifugal casting in general <a href="#">B29C 39/08</a> )}
B29D 30/0681	..	{ Parts of pneumatic tyres; accessories, auxiliary operations}



B29D 2030/0682	...	{ Inner liners (tubeless tyres with impervious liner or coating on the tyre <a href="#">B60C 5/14</a> ) }
B29D 2030/0683	...	{ Additional internal supports to be positioned inside the tyre, as emergency supports for run-flat tyres }
B29D 30/0685	...	{ Incorporating auto-repairing or self-sealing arrangements or agents on or into tyres (auto-repairing or self-sealing arrangements or agents <a href="#">B29C 73/16</a> ; puncture preventing arrangements <a href="#">B60C 19/12</a> ) }
B29D 2030/0686	....	{Incorporating sealants on or into tyres not otherwise provided for; auxiliary operations therefore, e.g. preparation of the tyre }
B29D 2030/0687	.....	{by incorporating the sealant into one chamber, e.g. bag, cell, tube or closed cavity }
B29D 2030/0689	.....	{by incorporating the sealant into a plurality of chambers, e.g. bags, cells, tubes or closed cavities }
B29D 2030/069	.....	{through the use of a cylindrical support, e.g. a drum }
B29D 2030/0691	.....	{through the use of a toroidal support, e.g. a core, a part of the tyre or an inner tube }
B29D 2030/0693	.....	{the sealant being in the form of discrete particles, e.g. spheres or balls, filled with sealant }
B29D 2030/0694	.....	{the sealant being in the form of one or more narrow strips, e.g. applied by winding into the interior of the tyre }
B29D 2030/0695	.....	{the sealant being in the form of one wide strip, e.g. a patch }
B29D 2030/0697	.....	{the sealant being in liquid form, e.g. applied by spraying }
B29D 2030/0698	.....	{the sealant being applied by injection, e.g. introducing the sealant through a hole }
B29D 30/08	..	Building tyres
B29D 2030/082	...	{Optimizing the deposition of the layers on the tyre building support, e.g. by using mathematical methods }
B29D 2030/084	...	{Placing two side portions of the tyre into the mould and introducing, e.g. by extrusion or injection moulding, the tread material to create the toroidal tyre }
B29D 2030/086	...	{Building the tyre carcass by combining two or more sub-assemblies, e.g. two half-carcasses }
B29D 2030/088	...	{by using a seamless tubular component, e.g. an inner liner, a carcass structure or a belt/breaker during tyre manufacturing on a core or a building drum }
B29D 30/10	...	on round cores, i.e. the shape of the core is approximately identical with the shape of the completed tyre
B29D 2030/105	....	{the cores being movable }
B29D 30/12	....	Cores
B29D 30/14	....	Rolling-down or pressing-down the layers in the building process
B29D 30/16	....	Applying the layers; Guiding or stretching the layers during application { applying tread bands to carcasses <a href="#">B29D 30/58</a> ; retreading <a href="#">B29D 30/54</a> }
B29D 30/1607	.....	{ by feeding a sheet perpendicular to the core axis and joining the ends to form an annular element (bending sheets and joining the edges <a href="#">B29C 53/42</a> ) }
B29D 30/1614	.....	{ by sliding a preformed tubular layer over the core }

B29D 30/1621	.....	{ by feeding a continuous band and winding it spirally, i.e. the band is fed without relative movement along the core axis, to form an annular element (winding and joining, spirally in general <a href="#">B29C 53/562</a> ) }
B29D 30/1628	.....	{ by feeding a continuous band and winding it helically, i.e. the band is fed while being advanced along the core axis, to form an annular element (winding and joining, helically in general <a href="#">B29C 53/58</a> ) }
B29D 30/1635	.....	{ by feeding a continuous band and moving it back and forth (zig-zag) to form an annular element }
B29D 30/1642	.....	{ by feeding cut-to-length pieces in a direction perpendicular to the core axis and in a plane parallel to the core axis, and placing the pieces side-by-side to form an annular element }
B29D 30/165	.....	{ by feeding cut-to-length pieces in a direction parallel to the core axis and placing the pieces side-by-side to form an annular element }
B29D 30/1657	.....	{ by feeding cut-to-length pieces in a direction inclined with respect to the core axis and placing the pieces side-by-side to form an annular element }
B29D 2030/1664	.....	{Details, accessories or auxiliary operations not provided for in the other subgroups of <a href="#">B29D 30/00</a> }
B29D 2030/1671	.....	{Venting air inclusions during the layer applications, e.g. by creating grooves, channels, passages, holes in the band-like tire component to be applied }
B29D 2030/1678	.....	{the layers being applied being substantially continuous, i. e. not being cut before the application step }
B29D 2030/1685	.....	{the layers being applied being already cut to the appropriate length, before the application step }
B29D 2030/1692	.....	{Changing the orientation of the layers, e.g. plies, to be applied }
B29D 30/18	....	Fitting the bead-rings or bead-cores; Folding the textile layers around the rings or cores
B29D 30/20	...	by the flat-tyre method, i.e. building on cylindrical drums
B29D 2030/201	....	{Manufacturing run-flat tyres }
B29D 2030/202	....	{the building drums being movable, i.e. not permanently connected to a fixed frame }
B29D 2030/203	....	{the fixtures supporting the cylindrical drums being non displaceable, i.e. substantially fixed to the floor }
B29D 2030/204	....	{the fixtures supporting the cylindrical drums, e.g. turrets, being displaceable, e.g. movable along a path, rail or the like }
B29D 2030/205	....	{A single building drum being mounted on a fixture or supporting device, e.g. turret or turntable }
B29D 2030/206	....	{A plurality of building drums being mounted on a fixture or supporting device, e.g. turret or turntable }
B29D 2030/207	....	{the drum supporting device being rotatable around a horizontal axis }
B29D 2030/208	....	{the drum supporting device being rotatable around a vertical axis }
B29D 2030/209	....	{the drum supporting device being rotatable around an inclined axis }
B29D 30/22	....	Breaker plies being applied in the unexpanded state
B29D 30/24	....	Drums
B29D 2030/241	.....	{Auxiliary drums used for temporary storage of the layers before application to the building drums }

B29D 30/242	.....	{for manufacturing substantially cylindrical tyre components without cores or beads, e.g. treads or belts}
B29D 30/243	.....	{and with mechanisms for folding layers}
B29D 30/244	.....	{for manufacturing substantially cylindrical tyre components with cores or beads, e.g. carcasses (mechanisms for folding layers around cores or blads per se <a href="#">B29D 30/32</a> )}
B29D 30/245	.....	{Drums for the single stage building process, i.e. the building-up of the cylindrical carcass and the toroidal expansion of it are realised on the same drum ( <a href="#">expansion to a toroidal shape B29D 30/36</a> )}
B29D 30/246	.....	{Drums for the multiple stage building process, i.e. the building-up of the cylindrical carcass is realised on one drum and the toroidal expansion is realised after transferring on another drum ( <a href="#">expansion to a toroidal shapeB29D 30/36</a> )}
B29D 30/247	.....	{Arrangements for the first stage only, e.g. means for radially expanding the drum to lock the beads ( <a href="#">B29D 30/245 takes precedence</a> )}
B29D 30/248	.....	{Drums of the undercut type without toroidal expansion, e.g. with provisions for folding down the plies, for positioning the beads under the surface of the drum}
B29D 30/26	.....	Accessories or details, e.g. membranes, transfer rings
B29D 30/2607	.....	{Devices for transferring annular tyre components during the building-up stage, e.g. from the first stage to the second stage building drum}
B29D 2030/2614	.....	{Bladders associated with the building drum, e.g. bladders used for the toroidal expansion, bladders for turning-up the plies }
B29D 2030/2621	.....	{Means for clamping bladders on the drum shoulders }
B29D 2030/2628	.....	{Bladders for shaping the inner parts of the tyre beads or sidewalls }
B29D 2030/2635	.....	{Central bladder, e.g. elastic membrane, sleeve, envelope, diaphragm, which covers the central portion of the drum, e.g. covering the toroidally expandable rigid segments }
B29D 2030/2642	.....	{Adjusting the diameter of the drum, to match its circumference with the length of ply }
B29D 2030/265	.....	{Radially expandable and contractable drum comprising a set of circumferentially arranged elastic, flexible elements, e.g. blades or laminas, with or without expandable annular sleeve or bladder }
B29D 2030/2657	.....	{Radially expandable and contractable drum comprising a set of circumferentially arranged rigid elements, e.g. fingers or arms }
B29D 2030/2664	.....	{the drum comprising at least two portions that are axially separable, e.g. the portions being supported by different shafts, e.g. in order to facilitate the insertion of the beads }
B29D 2030/2671	.....	{Holding the layers, e.g. the webs or the plies, in position onto the drum }
B29D 2030/2678	.....	{by using magnets }
B29D 2030/2685	.....	{by using mechanical means, e.g. jaws, grippers, pressing bars }
B29D 2030/2692	.....	{by using suction means, e.g. vacuum producing devices }
B29D 30/28	....	Rolling-down or pressing-down the layers in the building process
B29D 30/30	....	Applying the layers; Guiding or stretching the layers during application { applying tread bands to carcasses <a href="#">B29D 30/58</a> ; retreading <a href="#">B29D 30/54</a> }

B29D 30/3007	.....	{ by feeding a sheet perpendicular to the drum axis and joining the ends to form an annular element ( <a href="#">bending sheets and joining the edges B29C 53/42</a> )}
B29D 30/3014	.....	{ by sliding a preformed tubular layer over the drum}
B29D 30/3021	.....	{ by feeding a continuous band and winding it spirally, i.e. the band is fed without relative movement along the drum axis, to form an annular element ( <a href="#">winding and joining, spirally in general B29C 53/562</a> )}
B29D 30/3028	.....	{ by feeding a continuous band and winding it helically, i.e. the band is fed while being advanced along the drum axis, to form an annular element ( <a href="#">winding and joining, helically in general B29C 53/58</a> )}
B29D 30/3035	.....	{ by feeding a continuous band and moving it back and forth (zig-zag) to form an annular element}
B29D 30/3042	.....	{ by feeding cut-to-length pieces in a direction perpendicular to the drum axis and in a plane parallel to the drum axis, and placing the pieces side-by-side to form an annular element}
B29D 30/305	.....	{ by feeding cut-to-length pieces in a direction parallel to the drum axis and placing the pieces side-by-side to form an annular element}
B29D 30/3057	.....	{ by feeding cut-to-length pieces in a direction inclined with respect to the drum axis and placing the pieces side-by-side to form an annular element}
B29D 2030/3064	.....	{Details, accessories and auxiliary operations not otherwise provided for }
B29D 2030/3071	.....	{Venting air inclusions during the layer applications, e.g. by creating grooves, channels, passages, holes in the band-like tire component to be applied }
B29D 2030/3078	.....	{the layers being applied being substantially continuous, i. e. not being cut before the application step }
B29D 2030/3085	.....	{the layers being applied being already cut to the appropriate length, before the application step }
B29D 2030/3092	.....	{Changing the orientation of the layers, e.g. plies, to be applied }
B29D 30/32	....	Fitting the bead-rings or bead-cores; Folding the textile layers around the rings or cores
B29D 2030/3207	.....	{Positioning the beads }
B29D 2030/3214	.....	{Locking the beads on the drum; details of the drum in the bead locking areas, e.g. drum shoulders }
B29D 2030/3221	.....	{Folding over means, e.g. bladders or rigid arms }
B29D 2030/3228	.....	{using one bladder acting on each side of the drum }
B29D 2030/3235	.....	{using two or more bladders acting on each side of the drum }
B29D 2030/3242	.....	{and with means for pressing the bladder against the ply material, e.g. bladder guide shoes, cages, arms }
B29D 2030/325	.....	{the means being radially expandable and contractible }
B29D 2030/3257	.....	{using pressing rollers }
B29D 2030/3264	.....	{using radially expandable, contractible mechanical means, e.g. circumferentially spaced arms, spring rollers, cages }
B29D 2030/3271	.....	{using air blasts }
B29D 2030/3278	.....	{Folding down the ends of the tubular tyre component, e.g. the carcass, over the drum shoulders }

B29D 2030/3285	.....	{Placing a cushioning element, e.g. a ring, aside or around the beads }
B29D 2030/3292	.....	{Interposing trap strips between beads and plies }
B29D 30/34	...	by jointly covering two bead-rings, located parallel to each other at a distance apart, with fabric or cord layers
B29D 30/36	..	Expansion of tyres in a flat form {i.e. expansion to a toroidal shape independently of their building-up process}, e.g. of tyre built by the flat-tyre method or by jointly covering two bead-rings
B29D 30/38	..	Textile inserts, e.g. cord or canvas layers, for tyres (making woven fabrics <a href="#">D03D</a> ); Treatment of inserts prior to building the tyre (pretreatment of inserts <a href="#">B29B 15/00</a> ; manufacture of layers comprising fibrous parallel reinforcements of substantial or continuous length <a href="#">B29C 70/20</a> )
B29D 2030/381	...	{the inserts incorporating reinforcing parallel cords; manufacture thereof }
B29D 2030/383	...	{Chemical treatment of the reinforcing elements, e.g. cords, wires and filamentary materials, to increase the adhesion to the rubber (chemical pretreatment of the textile inserts <a href="#">B29D 30/40</a> ; pretreatment of reinforcements <a href="#">B29B 15/08</a> ; treating fibers, threads, yarns, fabrics in general <a href="#">D06M 15/00</a> )}
B29D 2030/385	...	{made by winding and joining a continuous reinforced rubber band onto a mandrel, to obtain a tubular article as an intermediate element in the manufacture of the insert }
B29D 2030/386	....	{the tubular article being cut to obtain a flat, single-layer insert }
B29D 2030/388	....	{the tubular article being flattened to obtain a two-layer insert }
B29D 30/40	...	Chemical pretreatment of textile inserts before building the tyre
B29D 30/42	...	Endless textile bands without bead-rings
B29D 2030/421	....	{General aspects of the joining methods and devices for creating the bands (joining of preformed parts in general <a href="#">B29C 65/00</a> )}
B29D 2030/422	.....	{Butt joining (single butt to butt joints in general <a href="#">B29C 66/1142</a> )}
B29D 2030/423	.....	{Joining by overlapping (single lap to lap joints in general <a href="#">B29C 66/1122</a> ; single bevel to bevel joints in general <a href="#">B29C 66/1162</a> )}
B29D 2030/424	.....	{the joining devices being angularly adjustable (joining devices characterized by the movement of the joining tools <a href="#">B29C 66/83</a> )}
B29D 2030/425	.....	{the joining devices being laterally adjustable (joining devices characterized by the movement of the joining tools <a href="#">B29C 66/83</a> )}
B29D 2030/426	.....	{the joining devices being longitudinally adjustable (joining devices characterized by the movement of the joining tools <a href="#">B29C 66/83</a> )}
B29D 2030/427	.....	{Positioning the bands at the joining areas (positioning the parts to be joined in general <a href="#">B29C 65/7802</a> )}
B29D 2030/428	.....	{Positioning the bands at the overlapping joining areas (positioning the parts to be joined by setting the overlap in general <a href="#">B29C 65/7835</a> )}
B29D 30/44	...	Stretching or treating the layers before application on the drum (during application <a href="#">B29D 30/30</a> )
B29D 2030/4406	....	{Adjusting the positions of the layers }
B29D 2030/4412	.....	{angularly }
B29D 2030/4418	.....	{laterally, e.g. sideways }
B29D 2030/4425	.....	{longitudinally }
B29D 2030/4431	.....	{by using gas flows, e.g. air jets blowing onto or underneath or sideways the layers }

B29D 2030/4437	....	{Adjusting the dimensions of the layers }
B29D 2030/4443	.....	{Increasing the length of the layers, e.g. by stretching }
B29D 2030/445	.....	{Shortening the layers, e.g. by acting on the lateral edges or on the thickness or by cutting }
B29D 2030/4456	.....	{by using speed differences, e.g. between conveyors or between conveyor and drum }
B29D 2030/4462	.....	{by using grasping means }
B29D 2030/4468	....	{Holding the layers }
B29D 2030/4475	.....	{by electrostatically charging the layers }
B29D 2030/4481	.....	{by using magnetic forces, e.g. magnets }
B29D 2030/4487	.....	{by using mechanical means, e.g. grippers or pressing bars }
B29D 2030/4493	.....	{by using suction means, e.g. vacuum }
B29D 30/46	...	Cutting textile inserts to required shape
B29D 2030/463	....	{Holding the textile inserts during cutting; means therefor }
B29D 2030/466	....	{Cutting the textile inserts between cords }
B29D 30/48	..	Bead-rings or bead-cores ( <a href="#">from wire B21F 37/00</a> ); Treatment thereof prior to building the tyre
B29D 2030/481	...	{Fillers or apexes }
B29D 2030/482	...	{Applying fillers or apexes to bead cores }
B29D 2030/483	...	{Treating the bead cores to increase rubber adhesion}
B29D 2030/485	...	{the bead cores being made using a band containing a plurality of wires embedded in rubber }
B29D 2030/486	...	{Additional components for the tyre bead areas, e.g. cushioning elements, chafers, flippers }
B29D 2030/487	...	{Forming devices for manufacturing the beads }
B29D 2030/488	...	{Clamping the wires on the forming devices }
B29D 30/50	...	Covering, e.g. by winding, the separate bead-rings or bead-cores with textile material, e.g. with flipper strips ( <a href="#">folding textile layers around bead-rings or bead-cores B29D 30/18, B29D 30/32; jointly covering bead-rings or bead cores B29D 30/34</a> )
B29D 30/52	..	Unvulcanised treads, e.g. on used tyres; Retreading ( <a href="#">apparatus for forming { treads by extrusion B29C 47/00; apparatus for} vulcanising treads B29C 35/02; apparatus characterised by the means for holding wheels or parts thereof B60B 30/00</a> )
B29D 2030/523	...	{Ring-shaped treads }
B29D 2030/526	...	{the tread comprising means for discharging the electrostatic charge, e.g. conductive elements or portions having conductivity higher than the tread rubber }
B29D 30/54	...	Retreading
B29D 2030/541	.....	{Abrading the tyre, e.g. buffing, to remove tread and/or sidewalls rubber, to prepare it for retreading }
B29D 30/542	....	{using envelopes or membranes provided with sealings for curing}
B29D 2030/543	.....	{Spreading the envelopes or membranes for inserting the tyre therein }



B29D 2030/544	....	{Applying an intermediate adhesive layer, e.g. cement or cushioning element between carcass and tread }
B29D 2030/545	....	{Using chambers to apply heat and pressure, e.g. autoclaves for curing the retreaded tyres }
B29D 2030/546	....	{Measuring, detecting, monitoring, inspecting, controlling }
B29D 2030/547	....	{Retreading solid tyres }
B29D 2030/548	....	{Removing the worn out tread from the carcass, e.g. by pulling a continuous wire embedded between tread and carcass }
B29D 2030/549	....	{Means for holding the tyre on a support }
B29D 30/56	....	Retreading with prevulcanised tread {(B29D 30/542 takes precedence)}
B29D 30/58	...	Applying bands of rubber treads, i.e. applying camel backs
B29D 2030/582	....	{Venting air inclusions, e.g. air trapped between tread and carcass }
B29D 2030/585	....	{Radially expanding annular treads to fit it over carcasses }
B29D 2030/587	....	{Using isostatic pressure, e.g. bags or bladders, to press tread and carcass against each other }
B29D 30/60	....	by winding narrow strips
B29D 30/62	....	by extrusion or injection of the tread on carcass
B29D 30/64	...	Tyre spreaders
B29D 30/66	...	Moulding treads on to tyre casings, e.g. non-skid treads with spikes
B29D 2030/662	....	{Treads with antiskid properties, i.e. with spikes }
B29D 2030/665	....	{Treads containing inserts other than spikes, e.g. fibers or hard granules, providing antiskid properties }
B29D 2030/667	....	{Treads with antiskid properties, e.g. having special patterns or special rubber compositions }
B29D 30/68	...	Cutting profiles into the treads of tyres
B29D 2030/685	....	{before tread vulcanization }
B29D 30/70	..	Annular breakers
B29D 2030/705	...	{the breakers being obtained by cutting a continuous reinforced strip into predefined lengths and placing the cut strips side by side on a suitable support, e.g. a toroidal core or a carcass }
B29D 30/72	..	Side-walls
B29D 2030/722	...	{Reinforcing the sidewalls, e.g. by using filaments, fibers or additional reinforcing layers }
B29D 2030/724	...	{Stiffening the sidewalls, e.g. by using additional inserts, e.g. made of rubber, plastics or other materials }
B29D 2030/726	...	{Decorating or marking the sidewalls before tyre vulcanization (protecting, decorating , marking tyre sidewalls B60C 13/00)}
B29D 2030/728	...	{Decorating or marking the sidewalls after tyre vulcanization (protecting, decorating , marking tyre sidewalls B60C 13/00)}
<b>B29D 33/00</b>		<b>Producing bushes for bearings</b>
<b>B29D 35/00</b>		<b>Producing footwear</b>

**NOTE**

1. Classification is made in this group if the moulding technique is of interest.
2. The assembling of individual parts by mechanical joining is classified in subclass [A43D](#), e.g. by gluing shoe parts [A43D 25/00](#)

<a href="#">B29D 35/0009</a>	. { by injection moulding; Apparatus therefor}
<a href="#">B29D 35/0018</a>	.. { Moulds}
<a href="#">B29D 35/0027</a>	... { Last constructions; Mountings therefor}
<a href="#">B29D 35/0036</a>	... { with displaceable sole plates}
<a href="#">B29D 35/0045</a>	... { Sealing means for the mould cavity}
<a href="#">B29D 35/0054</a>	. { by compression moulding, vulcanising or the like; Apparatus therefor}
<a href="#">B29D 35/0063</a>	.. { Moulds}
<a href="#">B29D 35/0072</a>	... { Last constructions; Mountings therefor}
<a href="#">B29D 35/0081</a>	... { with displaceable sole plates}
<a href="#">B29D 35/009</a>	... { Sealing means for the mould cavity}
<a href="#">B29D 35/02</a>	. made in one piece using a moulding technique, e.g. by injection moulding or casting
<a href="#">B29D 35/04</a>	.. having multilayered parts
<a href="#">B29D 35/06</a>	. having soles or heels formed and joined on to preformed uppers using a moulding technique, e.g. by injection moulding, pressing and vulcanising
<a href="#">B29D 35/061</a>	.. { by injection moulding}
<a href="#">B29D 35/062</a>	... { using means to bond the moulding material to the preformed uppers}
<a href="#">B29D 35/064</a>	... { using particular materials for the preformed uppers}
<a href="#">B29D 35/065</a>	.. { by compression moulding, vulcanising or the like}
<a href="#">B29D 35/067</a>	... { using means to bond the moulding material to the preformed uppers}
<a href="#">B29D 35/068</a>	... { using particular materials for the preformed uppers}
<a href="#">B29D 35/08</a>	.. having multilayered parts
<a href="#">B29D 35/081</a>	... { by injection moulding}
<a href="#">B29D 35/082</a>	.... { injecting first the outer sole part}
<a href="#">B29D 35/084</a>	.... { using exchangeable mould elements}
<a href="#">B29D 35/085</a>	... { by compression moulding, vulcanising or the like}
<a href="#">B29D 35/087</a>	.... { forming first the outer sole part}
<a href="#">B29D 35/088</a>	.... { using exchangeable mould elements}
<a href="#">B29D 35/10</a>	. having preformed soles or heels joined on to preformed uppers using a moulding technique, e.g. by feeding or injecting plastics material between the parts to be joined
<a href="#">B29D 35/12</a>	. Producing parts thereof, e.g. soles, heels, uppers, by a moulding technique
<a href="#">B29D 35/122</a>	.. { Soles}
<a href="#">B29D 35/124</a>	.. { Heels}
<a href="#">B29D 35/126</a>	.. { Uppers}
<a href="#">B29D 35/128</a>	.. { Moulds or apparatus therefor}
<a href="#">B29D 35/14</a>	.. Multilayered parts
<a href="#">B29D 35/142</a>	... { Soles}

B29D 35/144	... { Heels}
B29D 35/146	... { Uppers}
B29D 35/148	... { Moulds or apparatus therefor}
<b>B29D 99/00</b>	<b>Subject matter not provided for in other groups of this subclass {(not used, see subgroups)} üC1203</b>
B29D 99/0003	. { Producing profiled members, e.g. beams}
B29D 99/0007	.. { having a variable cross-section}
B29D 99/001	. { Producing wall or panel-like structures, e.g. for hulls, fuselages, or buildings (articles with hollow walls <a href="#">B29D 24/00</a> )}
B29D 99/0014	.. { provided with ridges or ribs, e.g. joined ribs}
B29D 99/0017	... { with filled hollow ridges}
B29D 99/0021	.. { provided with plain or filled structures, e.g. cores, placed between two or more plates or sheets, e.g. in a matrix}
B29D 99/0025	. { Producing blades or the like, e.g. blades for turbines, propellers, or wings}
B29D 99/0028	.. { hollow blades}
B29D 99/0032	. { Producing rolling bodies, e.g. rollers, wheels, pulleys or pinions (bushes for bearings <a href="#">B29D 33/00</a> ; gear wheels <a href="#">B29D 15/00</a> )}
B29D 99/0035	.. { rollers or cylinders having an axial length of several times the diameter, e.g. for embossing, pressing, or printing}
B29D 99/0039	. { Producing countertops}
B29D 99/0042	. { Producing plain balls (hollow balls <a href="#">B29D 22/04</a> )}
B29D 99/0046	. { Producing rods (connecting-rods formed from fiber-reinforced resins <a href="#">F16C 7/026</a> )}
B29D 99/005	. { Producing membranes}
B29D 99/0053	. { Producing sealings ( <a href="#">B29D 99/0085</a> takes precedence)}
B29D 99/0057	. { Producing floor coverings}
B29D 99/006	. { Producing casings, e.g. accumulator cases}
B29D 99/0064	. { Producing wearing apparel}
B29D 99/0067	.. { Gloves}
B29D 99/0071	.. { Masks, e.g. gas masks}
B29D 99/0075	.. { Bathing caps}
B29D 99/0078	. { Producing filamentary materials}
B29D 99/0082	. { Producing articles in the form of closed loops, e.g. rings ( <a href="#">B29D 29/00</a> takes precedence)}
B29D 99/0085	.. { for sealing purposes}
B29D 99/0089	. { Producing honeycomb structures (consisting of porous ceramic ware <a href="#">C04B 38/0006</a> )}
B29D 99/0092	. { Producing upholstery articles, e.g. cushions, seats ( <a href="#">B29C 63/025</a> takes precedence)}
B29D 99/0096	. { Producing closure members for containers, e.g. closure caps or stoppers}