

**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 ( [B29D 11/00115](#) takes precedence ) }
- B29D 11/0048 . . { Moulds for lenses ( moulds for plastic articles in general [B29C 33/00](#) ) }
- 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 [B41M](#) ; identification in general [G09F 3/00](#); producing decorative effects in general [B44C](#) ; positioning or marking of lenses [B24B 13/0055](#) ) }
- 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 [B41M](#) ) }
  
- 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 [A61F 2/14](#) ) }
- B29D 11/023    ..    { Implants for natural eyes }
- B29D 11/026    ...    { Comprising more than one lens }
  
- B29D 12/00    Producing frames**
  
- B29D 12/02    .    Spectacle frames ( constructional form [G02C](#) )
  
- B29D 15/00    Producing gear wheels or similar articles with grooves or projections, e.g. control knobs**
  
- B29D 16/00    Producing articles with corrugations ( [B29D 23/18](#) takes precedence )**

- B29D 17/00**      **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 G11B](#) ); Producing record discs from master stencils**
- 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 }
- B29D 19/00**      **Producing buttons or semi-finished parts of buttons**
- B29D 19/04      . by cutting, milling, turning, stamping, or perforating moulded parts; Surface treatment of buttons
- B29D 19/06      .. Devices for feeding semi-finished parts to the processing machines
- B29D 19/08      .. Making holes in buttons or in semi-finished parts thereof
- B29D 21/00**      **Producing hair combs or similar toothed or slotted articles**
- B29D 21/04      . by sawing, milling, cutting, or similar operations
- B29D 21/06      . Polishing
- B29D 22/00**      **Producing hollow articles ( [tubular articles B29D 23/00](#); [pneumatic tyres B29D 30/00](#) )**
- B29D 22/003      . { Containers for packaging, storing or transporting, e.g. bottles, jars, cans, barrels, tanks }
- B29D 22/006      .. { Hot water bottles }
- B29D 22/02      . Inflatable articles
- B29D 22/023      .. { Air springs; Air bellows ( [construction of fluid springs F16F 9/00](#) ) }
- B29D 22/026      .. { Ring shaped inner tubes with ends ( [endless inner tubes B29D 23/24](#) ) }
- B29D 22/04      . Spherical articles, e.g. balls ( [B29D 22/02](#) takes precedence )
- B29D 23/00**      **Producing tubular articles ( [B29D 24/00](#) takes precedence )**
- B29D 23/001      . { Pipes; Pipe joints ( [pleated hoses B29D 23/18](#) ) }
- B29D 23/003      .. { Pipe joints, e.g. straight joints }
- B29D 23/005      ... { provided with electrical wiring }
- B29D 23/006      ... { Elbows }
- B29D 23/008      ... { T-joints }
- B29D 23/14      . Cigar or cigarette holders
- B29D 23/18      . Pleated { or corrugated } hoses

- B29D 23/20 . Flexible squeeze tubes, e.g. for cosmetics
- B29D 23/24 . Endless tubes, e.g. inner tubes for pneumatic tyres { ( producing ring shaped inner tubes with ends [B29D 22/026](#); inflatable inner tubes for tyres [B60C 5/00](#) ) }
- B29D 24/00** **Producing articles with hollow walls { ( [B29D 99/0028](#) takes precedence ) }**
- B29D 24/001 . { formed of hollow ridges or ribs, e.g. separate ridges; continuous corrugated structure ( [B29D 24/008](#) takes precedence ) }
- B29D 24/002 . { formed with structures, e.g. cores placed between two plates or sheets, e.g. partially filled ( totally filled [B29D 99/0021](#) ) }
- B29D 24/004 . . { the structure having vertical or oblique ribs }
- B29D 24/005 . . { the structure having joined ribs, e.g. honeycomb }
- B29D 24/007 . . . { and a chamfered edge }
- B29D 24/008 . . { the structure having hollow ridges, ribs or cores }
- B29D 25/00** **Producing frameless domes**
- B29D 28/00** **Producing nets or the like, { e.g. meshes, lattices } ( by knotting [D04G](#) )**
- B29D 28/005 . { Reticulated structure comprising reinforcements of substantial or continuous length }
- 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 ( [moulds or cores in general B29C 33/00](#) )
- 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 ( [porous moulds in general B29C 33/3814](#) )
- 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	.....	N: 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 { <a href="#">applying tread bands to carcasses B29D 30/58</a> ; <a href="#">retreading B29D 30/54</a> }
B29D 30/1607	.....	{ <a href="#">by feeding a sheet perpendicular to the core axis and joining the ends to form an annular element ( <a href="#">bending sheets and joining the edges B29C 53/42</a> )</a> }
B29D 30/1614	.....	{ <a href="#">by sliding a preformed tubular layer over the core</a> }
B29D 30/1621	.....	{ <a href="#">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 ( <a href="#">winding and joining, spirally in general B29C 53/562</a> )</a> }
B29D 30/1628	.....	{ <a href="#">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 ( <a href="#">winding and joining, helically in general B29C 53/58</a> )</a> }
B29D 30/1635	.....	{ <a href="#">by feeding a continuous band and moving it back and forth (zig-zag) to form an annular element</a> }
B29D 30/1642	.....	{ <a href="#">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</a> }
B29D 30/165	.....	{ <a href="#">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</a> }
B29D 30/1657	.....	{ <a href="#">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</a> }
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 ( expansion to a toroidal shape <a href="#">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 ( expansion to a toroidal shape <a href="#">B29D 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</a> takes precedence ) }
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
<a href="#">B29D 2030/265</a>	.....	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
<a href="#">B29D 2030/2657</a>	.....	Radially expandable and contractable drum comprising a set of circumferentially arranged rigid elements, e.g. fingers or arms
<a href="#">B29D 2030/2664</a>	.....	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
<a href="#">B29D 2030/2671</a>	.....	Holding the layers, e.g. the webs or the plies, in position onto the drum
<a href="#">B29D 2030/2678</a>	.....	by using magnets
<a href="#">B29D 2030/2685</a>	.....	by using mechanical means, e.g. jaws, grippers, pressing bars
<a href="#">B29D 2030/2692</a>	.....	by using suction means, e.g. vacuum producing devices
<a href="#">B29D 30/28</a>	....	Rolling-down or pressing-down the layers in the building process
<a href="#">B29D 30/30</a>	....	Applying the layers; Guiding or stretching the layers during application { <a href="#">applying tread bands to carcasses B29D 30/58</a> ; <a href="#">retreading B29D 30/54</a> }
<a href="#">B29D 30/3007</a>	.....	{ <a href="#">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> )</a> }
<a href="#">B29D 30/3014</a>	.....	{ <a href="#">by sliding a preformed tubular layer over the drum</a> }
<a href="#">B29D 30/3021</a>	.....	{ <a href="#">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> )</a> }
<a href="#">B29D 30/3028</a>	.....	{ <a href="#">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> )</a> }
<a href="#">B29D 30/3035</a>	.....	{ <a href="#">by feeding a continuous band and moving it back and forth (zig-zag) to form an annular element</a> }
<a href="#">B29D 30/3042</a>	.....	{ <a href="#">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</a> }
<a href="#">B29D 30/305</a>	.....	{ <a href="#">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</a> }
<a href="#">B29D 30/3057</a>	.....	{ <a href="#">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</a> }
<a href="#">B29D 2030/3064</a>	.....	Details, accessories and auxiliary operations not otherwise provided for
<a href="#">B29D 2030/3071</a>	.....	Venting air inclusions during the layer applications, e.g. by creating grooves, channels, passages, holes in the band-like tire component to be applied
<a href="#">B29D 2030/3078</a>	.....	the layers being applied being substantially continuous, i. e. not being cut before the application step
<a href="#">B29D 2030/3085</a>	.....	the layers being applied being already cut to the appropriate length, before the application step
<a href="#">B29D 2030/3092</a>	.....	Changing the orientation of the layers, e.g. plies, to be applied
<a href="#">B29D 30/32</a>	....	Fitting the bead-rings or bead-cores; Folding the textile layers around the rings or cores
<a href="#">B29D 2030/3207</a>	.....	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>i.e. expansion to a toroidal shape independently of their building-up process</i> }, 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 ( <i>making woven fabrics D03D</i> ); Treatment of inserts prior to building the tyre ( <i>pretreatment of inserts B29B 15/00; manufacture of layers comprising fibrous parallel reinforcements of substantial or continuous length B29C 70/20</i> )
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 ( <i>chemical pretreatment of the textile inserts B29D 30/40; pretreatment of reinforcements B29B 15/08; treating fibers, threads, yarns, fabrics in general D06M 15/00</i> )
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 ( <i>joining of preformed parts in general B29C 65/00</i> )
B29D 2030/422	.....	Butt joining ( <i>single butt to butt joints in general B29C 65/00H7B2D2</i> )
B29D 2030/423	.....	Joining by overlapping ( <i>single lap to lap joints in general B29C 65/00H7B2B2; single bevel to bevel joints in general B29C 65/00H7B2F2</i> )
B29D 2030/424	.....	the joining devices being angularly adjustable ( <i>joining devices characterized by the movement of the joining tools B29C 65/00M5</i> )
B29D 2030/425	.....	the joining devices being laterally adjustable ( <i>joining devices characterized by the movement of the joining tools B29C 65/00M5</i> )
B29D 2030/426	.....	the joining devices being longitudinally adjustable ( <i>joining devices</i>

		characterized by the movement of the joining tools <a href="#">B29C 65/00M5</a> )
<a href="#">B29D 2030/427</a>	.....	Positioning the bands at the joining areas ( <a href="#">positioning the parts to be joined in general B29C 65/7802</a> )
<a href="#">B29D 2030/428</a>	.....	Positioning the bands at the overlapping joining areas ( <a href="#">positioning the parts to be joined by setting the overlap in general B29C 65/7835</a> )
<a href="#">B29D 30/44</a>	...	Stretching or treating the layers before application on the drum ( <a href="#">during application B29D 30/30</a> )
<a href="#">B29D 2030/4406</a>	....	Adjusting the positions of the layers
<a href="#">B29D 2030/4412</a>	.....	angularly
<a href="#">B29D 2030/4418</a>	.....	laterally, e.g. sideways
<a href="#">B29D 2030/4425</a>	.....	longitudinally
<a href="#">B29D 2030/4431</a>	.....	by using gas flows, e.g. air jets blowing onto or underneath or sideways the layers
<a href="#">B29D 2030/4437</a>	....	Adjusting the dimensions of the layers
<a href="#">B29D 2030/4443</a>	.....	Increasing the length of the layers, e.g. by stretching
<a href="#">B29D 2030/445</a>	.....	Shortening the layers, e.g. by acting on the lateral edges or on the thickness or by cutting
<a href="#">B29D 2030/4456</a>	.....	by using speed differences, e.g. between conveyors or between conveyor and drum
<a href="#">B29D 2030/4462</a>	.....	by using grasping means
<a href="#">B29D 2030/4468</a>	....	Holding the layers
<a href="#">B29D 2030/4475</a>	.....	by electrostatically charging the layers
<a href="#">B29D 2030/4481</a>	.....	by using magnetic forces, e.g. magnets
<a href="#">B29D 2030/4487</a>	.....	by using mechanical means, e.g. grippers or pressing bars
<a href="#">B29D 2030/4493</a>	.....	by using suction means, e.g. vacuum
<a href="#">B29D 30/46</a>	...	Cutting textile inserts to required shape
<a href="#">B29D 2030/463</a>	....	Holding the textile inserts during cutting; means therefor
<a href="#">B29D 2030/466</a>	....	Cutting the textile inserts between cords
<a href="#">B29D 30/48</a>	..	Bead-rings or bead-cores ( <a href="#">from wire B21F 37/00</a> ); Treatment thereof prior to building the tyre
<a href="#">B29D 2030/481</a>	...	Fillers or apexes
<a href="#">B29D 2030/482</a>	...	Applying fillers or apexes to bead cores
<a href="#">B29D 2030/483</a>	...	Treating the bead cores to increase rubber adhesion
<a href="#">B29D 2030/485</a>	...	the bead cores being made using a band containing a plurality of wires embedded in rubber
<a href="#">B29D 2030/486</a>	...	Additional components for the tyre bead areas, e.g. cushioning elements, chafers, flippers
<a href="#">B29D 2030/487</a>	...	Forming devices for manufacturing the beads
<a href="#">B29D 2030/488</a>	...	Clamping the wires on the forming devices
<a href="#">B29D 30/50</a>	...	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> )
<a href="#">B29D 30/52</a>	..	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](#) )

**B29D 33/00 Producing bushes for bearings**

**B29D 35/00 Producing footwear**

**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](#)

- B29D 35/0009 . { by injection moulding; Apparatus therefor }
- B29D 35/0018 . . { Moulds }
- B29D 35/0027 . . . { Last constructions; Mountings therefor }
- B29D 35/0036 . . . { with displaceable sole plates }
- B29D 35/0045 . . . { Sealing means for the mould cavity }
  
- B29D 35/0054 . { by compression moulding, vulcanising or the like; Apparatus therefor }
- B29D 35/0063 . . { Moulds }
- B29D 35/0072 . . . { Last constructions; Mountings therefor }
- B29D 35/0081 . . . { with displaceable sole plates }
- B29D 35/009 . . . { Sealing means for the mould cavity }
  
- B29D 35/02 . made in one piece using a moulding technique, e.g. by injection moulding or casting
- B29D 35/04 . . having multilayered parts
  
- B29D 35/06 . having soles or heels formed and joined on to preformed uppers using a moulding technique, e.g. by injection moulding, pressing and vulcanising
- B29D 35/061 . . { by injection moulding }
- B29D 35/062 . . . { using means to bond the moulding material to the preformed uppers }
- B29D 35/064 . . . { using particular materials for the preformed uppers }
- B29D 35/065 . . { by compression moulding, vulcanising or the like }
- B29D 35/067 . . . { using means to bond the moulding material to the preformed uppers }
- B29D 35/068 . . . { using particular materials for the preformed uppers }
- B29D 35/08 . . having multilayered parts
- B29D 35/081 . . . { by injection moulding }
- B29D 35/082 . . . . { injecting first the outer sole part }
- B29D 35/084 . . . . { using exchangeable mould elements }
- B29D 35/085 . . . { by compression moulding, vulcanising or the like }
- B29D 35/087 . . . . { forming first the outer sole part }
- B29D 35/088 . . . . { using exchangeable mould elements }
  
- B29D 35/10 . 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

- B29D 35/12 . Producing parts thereof, e.g. soles, heels, uppers, by a moulding technique
- B29D 35/122 .. { Soles }
- B29D 35/124 .. { Heels }
- B29D 35/126 .. { Uppers }
- B29D 35/128 .. { Moulds or apparatus therefor }
- B29D 35/14 .. Multilayered parts
- B29D 35/142 ... { Soles }
- B29D 35/144 ... { Heels }
- B29D 35/146 ... { Uppers }
- B29D 35/148 ... { Moulds or apparatus therefor }

**B29D 99/00** **Subject matter not provided for in other groups of this subclass { ( not used, see subgroups ) } üC1203**

- 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 [B29D 24/00](#) ) }
- 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 [B29D 33/00](#); gear wheels [B29D 15/00](#) ) }
- 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 [B29D 22/04](#) ) }
- B29D 99/0046 . { Producing rods ( connecting-rods formed from fiber-reinforced resins [F16C 7/00F](#) ) }
- B29D 99/005 . { Producing membranes }
- B29D 99/0053 . { Producing sealings ( [B29D 99/0085](#) 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 ( [B29D 29/00](#) takes precedence ) }
- B29D 99/0085 . . { for sealing purposes }
- B29D 99/0089 . { Producing honeycomb structures ( consisting of porous ceramic ware [C04B 38/0006](#) ) }
- B29D 99/0092 . { Producing upholstery articles, e.g. cushions, seats ( [B29C 63/025](#) takes precedence ) }
- B29D 99/0096 . { Producing closure members for containers, e.g. closure caps or stoppers }