SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B32 LAYERED PRODUCTS

B32B LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM

Note(s) [3, 2010.01]

- 1. This subclass <u>covers</u>:
 - · layered products comprising different kinds of material or layered products not characterised by the particular kind of material used;
 - a product similar to a layered product but comprising only material in the form of a sheet or network embedded in a mass of plastics or of physically-similar substances which mass penetrates the said sheet or network and lies on both sides of the latter (e.g. so that the sheet or network reinforces the plastics substance) provided that the embedded sheet or network extends coherently or connectedly over substantially the whole area of the product; thus the embedded sheet or network may be a fabric or a series of rods connected by cross wires. The manner of making such a product is, however, classified in this subclass only if it is essentially a process of building-up an assembly of layers of which at least one outer layer is preformed. If the embedded material comprises only a series of unconnected rods, the product is not classified in this subclass.
- 2. This subclass does not cover:
 - processes or apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is solely applicable to and fully classifiable in a single other class or subclass for processes or apparatus, e.g. B05, B29C, B29D, B44D, C08J, C09J or C23;
 - compositions or preparation or treatment thereof, unless they are essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction;
 - etched metallic pattern on the surface of a printed circuit board.
- 3. In this subclass, a film formed on a layer by spreading a substance thereon is not considered to constitute a layer itself if it serves only as an adhesive or its purpose is merely to finish a surface of a product.
- 4. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "layer" is a sheet or strip or anything else having a small thickness relatively to its other dimensions which, together with at least one other layer, exists in a product, whether it pre-existed, e.g. as a separate sheet or strip, or was formed during the production of the layered product. It may or may not be homogeneous or cohesive; it may be an assembly of fibres or pieces of material. It may be discontinuous, e.g. in the form of a grating, honeycomb, or frame. It may or may not be in complete contact with the next layer, e.g. a corrugated layer against a flat layer;
 - "layered product" comprises at least two layers secured together. The term "secured" includes any method of uniting layers, e.g. needling, stitching, gluing, nailing, dovetailing or the interposition of an adhesive or adhesive impregnated support. It may also be an intermediate stage in the production of an article which is not layered in its final form, e.g. a panel with a protective layer which is stripped off when the panel is placed in its position of use. The layers are preformed layers or layers formed in situ on a preformed layer and may consist of coherent solid materials, including honeycombs and other cellular materials or of non-coherent solid materials composed of assemblies of strands, strips, fibres, tiles or the like;
 - "filamentary layer" means a layer of threads or filaments of any substance (e.g. wires) of more or less unlimited length placed in an orderly arrangement and secured together; it may be woven, knitted, braided, or netted, or formed of threads crossed or laid side and bonded together;
 - "fibrous layer" means a random assembly of fibres or filaments, usually of limited length, e.g. felt, fleece; the fibres may or may not be interengaged or connected, e.g. by adhesive.
- 5. If a layered product is characterised by the way it is produced and not by its structure or composition, the production method should be classified in groups B32B 37/00 or B32B 38/00, or in subclass B29C, for example in groups B29C 45/16 or B29C 48/18.
- 6. The classification of layered products is provided for in many classes, most of which are confined to a particular kind of material. However, in order that this subclass may provide a basis for making a complete search with respect to layered products, all relevant subject matter is classified in this subclass even though it may also be classified in other classes.

Subclass index

LAYERED PRODUCTS CHARACTERISED BY

Their structure

| general shape | 1/00, 3/00 |
|----------------------------------------------------------|----------------------------|
| layer structure | 3/00, 5/00 |
| relation between layers | 7/00 |
| Substances used | |
| bituminous or tarry substances, water-setting substances | 11/00, 13/00 |
| metal, glass, ceramics, mineral fibres or particles | 15/00, 17/00, 18/00, 19/00 |
| wood paper cellulosic plastic substances | 21/00 29/00 23/00 |

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| rubber, synthetic resin | 25/00, 27/00 |
|-------------------------------------|--------------|
| other substances. | 9/00 |
| Their properties | 33/00 |
| MAKING LAYERED PRODUCTS | |
| Methods or apparatus for laminating | 37/00 |
| Ancillary operations | |
| Controlling or monitoring | 41/00 |
| Other operations, e.g. repairing | 43/00 |

1/00 Layered products essentially having a general shape other than plane [1, 2006.01]

Note(s)

For classification of a product in this group, surface unevennesses or non-uniformities and the shape of individual layers are ignored.

- 1/02 Receptacles, e.g. tanks [1, 2006.01]
- characterised by feature of form at particular places,
 e.g. in edge regions [1, 2006.01]
- characterised by fillings or added members in hollow portions [1, 2006.01]
- 1/08 Tubular products **[1, 2006.01]**
- 3/00 Layered products essentially comprising a layer with external or internal discontinuities or unevennesses, or a layer of non-planar form (fibrous or filamentary layers B32B 5/02; particulate layers B32B 5/16; foamed layers B32B 5/18); Layered products essentially having particular features of form (B32B 1/00 takes precedence) [1, 2006.01]

Note(s)

In this group, channels, voids, and cavities may be filled otherwise than with air, e.g. with gas, with liquid, with other material different from that of the layer in which they occur.

- 3/02 characterised by features of form at particular places,
 e.g. in edge regions [1, 2006.01]
- 3/04 characterised by a layer folded at the edge, e.g. over another layer [1, 2006.01]
- 3/06 • for securing layers together; for attaching the product to another member, e.g. to a support [1, 2006.01]
- 3/08 characterised by added members at particular parts [1, 2006.01]
- 3/10 characterised by a discontinuous layer, i.e. apertured or formed of separate pieces of material **[1, 2006.01]**

Note(s)

In this group, a series of spaced separate elements forming in effect a broken surface should be regarded as a layer.

- 3/12 characterised by a layer of regularly-arranged cells whether integral or formed individually or by conjunction of separate strips, e.g. honeycomb structure [1, 2006.01]
- 3/14 characterised by a face layer formed of separate pieces of material [1, 2006.01]
- 3/16 • secured to a flexible backing **[1, 2006.01]**
- 3/18 characterised by an internal layer formed of separate pieces of material [1, 2006.01]
- 3/20 • of hollow pieces, e.g. tubes; of pieces with channels or cavities **[1, 2006.01]**
- 3/22 • of spaced pieces **[1, 2006.01]**
- 3/24 characterised by an apertured layer, e.g. of expanded metal [1, 2006.01]

- characterised by a particular shape of the outline of the cross-section of a continuous layer; characterised by a layer with cavities or internal voids (regular cells B32B 3/12) [1, 2006.01]
- 3/28 characterised by a layer comprising a deformed thin sheet, e.g. corrugated, crumpled (B32B 29/08 takes precedence) [1, 3, 2006.01]
- 3/30 characterised by a layer formed with recesses or projections, e.g. grooved, ribbed [1, 2006.01]
- 5/00 Layered products characterised by the nonhomogeneity or physical structure of a layer (B32B 9/00-B32B 29/00 take precedence) [1, 2006.01]

Note(s)

In this group, fibres, filaments, granules, or powder forming or included in a layer may be impregnated, bonded together, or embedded in a substance such as synthetic resin. If the substance of the fibres, or the like, or the impregnating, bonding, or embedding substance, is important it is classified in the relevant group for the substance.

 characterised by structural features of a layer comprising fibres or filaments [1, 2006.01]

Note(s)

This group covers, in addition to filamentary and fibrous layers as defined in Note (4) following the title of this subclass, layers of substances having an intrinsic fibrous nature (e.g. paper, wood), if the fibrous nature is important and the particular substance is not important.

- characterised by a layer being specifically extensible by reason of its structure or arrangement [1, 2006.01]
- characterised by a fibrous layer needled to another layer, e.g. of fibres, of paper [1, 2006.01]
- the fibres or filaments of a layer being specially arranged or being of different substances [1, 2006.01]
- 5/10 characterised by a fibrous layer reinforced with filaments [1, 2006.01]
- 5/12 characterised by the relative arrangement of fibres or filaments of adjacent layers [1, 2006.01]
- 5/14 characterised by a layer differing constitutionally or physically in different parts, e.g. denser near its faces [1, 2006.01]
- 5/16 characterised by features of a layer formed of particles, e.g. chips, chopped fibres, powder [1, 2006.01]
- 5/18 characterised by features of a layer containing foamed or specifically porous material [1, 2006.01]
- 5/20 • foamed <u>in situ</u> [1, 2006.01]
- characterised by the presence of two or more layers which comprise fibres, filaments, granules, or powder, or are foamed or specifically porous [1, 2006.01]

| | layer [1, 2006.01] | | constituent of a layer, next to another layer of a |
|----------------|-----------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/26 | another layer also being fibrous or | | specific substance [1, 2006.01] |
| | filamentary [1, 2006.01] | 9/06 | • • of paper or cardboard [1, 2006.01] |
| 5/28 | • impregnated with or embedded in a plastic substance [1, 2006.01] | 11/00 | Layered products essentially comprising bituminous |
| 5/30 | | 11,00 | or tarry substances [1, 2006.01] |
| | one layer comprising granules or powder [1, 2006.01] | 11/02 | • with fibres or particles embedded in it or bonded with |
| 5/32 | both layers being foamed or specifically | 11/04 | it [1, 2006.01] |
| | porous [1, 2006.01] | 11/04 | comprising such substance as the main or only constituent of a layer, next to another layer of a |
| 7/00 | Layered products characterised by the relation | | specific substance [1, 2006.01] |
| | between layers; Layered products characterised by | 11/06 | of paper or cardboard [1, 2006.01] |
| | the relative orientation of features between layers, or | 11/08 | • • of metal [1, 2006.01] |
| | by the relative values of a measurable parameter between layers, i.e. products comprising layers | 11/10 | next to a fibrous or filamentary layer [1, 2006.01] |
| | having different physical, chemical or | 11/12 | next to a particulate layer [1, 2006.01] |
| | physicochemical properties; Layered products | 12/00 | The state of the s |
| | characterised by the interconnection of | 13/00 | Layered products essentially comprising a water- |
| | layers [1, 2006.01, 2019.01] | | setting substance, e.g. concrete, plaster, asbestos cement, or like builders' material [1, 2006.01] |
| 7/02 | Physical, chemical or physicochemical | 13/02 | with fibres or particles embedded in it or bonded with |
| | properties [1, 2006.01, 2019.01] | 13/02 | it [1, 2006.01] |
| 7/022 | Mechanical properties [2019.01] | 13/04 | • comprising such substances as the main or only |
| 7/023 | Optical properties [2019.01] | 13/04 | constituent of a layer, next to another layer of a |
| 7/025 | • • Electric or magnetic properties [2019.01] | | specific substance [1, 2006.01] |
| 7/027 | • • Thermal properties [2019.01] | 13/06 | • • of metal [1, 2006.01] |
| 7/028 | Heat-shrinkability [2019.01] | 13/08 | • • of paper or cardboard [1, 2006.01] |
| 7/03 | with respect to the orientation of features (direction | 13/10 | of wood; of wood particle board [1, 2006.01] |
| 7703 | of fibres or filaments B32B 5/12) [2019.01] | 13/12 | of wood, of wood particle board [1, 2000.01] of synthetic resin [1, 2006.01] |
| 7/035 | using arrangements of stretched films, e.g. of | 13/14 | • next to a fibrous or filamentary layer [1, 2006.01] |
| 77000 | mono-axially stretched films arranged | 13/14 | • Hext to a Horous of Hiamentary layer [1, 2000.01] |
| | alternately [2019.01] | 15/00 | Layered products essentially comprising |
| 7/04 | • Interconnection of layers [1, 2006.01, 2019.01] | | metal [1, 2006.01] |
| 7/05 | the layers not being connected over the whole | 15/01 | • all layers being exclusively metallic [3, 2006.01] |
| | surface, e.g. discontinuous connection or patterned | 15/02 | • in a form other than a sheet, e.g. wire, |
| | connection (using interposed adhesives or bonding | | particles [1, 2006.01] |
| | materials applied in spaced arrangements | 15/04 | • comprising metal as the main or only constituent of a |
| | B32B 7/14) [2019.01] | | layer, next to another layer of a specific |
| 7/06 | permitting easy separation [1, 2006.01, 2019.01] | | substance [1, 2006.01] |
| 7/08 | by mechanical means [1, 2006.01, 2019.01] | 15/06 | • • of rubber [1, 2006.01] |
| 7/09 | • • by stitching, needling or sewing (by needling | 15/08 | • • of synthetic resin [1, 2006.01] |
| | fibrous layers B32B 5/06) [2019.01] | 15/082 | comprising vinyl resins; comprising acrylic |
| 7/10 | at least one layer having inter-reactive | | resins [2006.01] |
| | properties [1, 2006.01] | 15/085 | • • comprising polyolefins [2006.01] |
| 7/12 | using interposed adhesives or interposed materials | 15/088 | • • • comprising polyamides [2006.01] |
| | with bonding properties [1, 2006.01] | 15/09 | • • • comprising polyesters [2006.01] |
| 7/14 | applied in spaced arrangements, e.g. in | 15/092 | • • • comprising epoxy resins [2006.01] |
| | stripes [1, 2006.01] | 15/095 | • • • comprising polyurethanes [2006.01] |
| | | 15/098 | • • • comprising condensation resins of aldehydes, |
| <u>Layered</u> | products characterised by particular substances used | | e.g. with phenols, ureas or melamines [2006.01] |
| | Note(s) | 15/10 | • • of wood [1, 2006.01] |
| | | 15/10 | of wood [1, 2006.01] of paper or cardboard [1, 2006.01] |
| | In groups B32B 9/00-B32B 29/00, the following | 15/12 | • next to a fibrous or filamentary layer [1, 2006.01] |
| | expressions are used with the meanings indicated: "specific substance" covers specified | 15/14 | • next to a particulate layer [1, 2006.01] |
| | alternative substances if they are all covered | 15/18 | next to a particulate layer [1, 2006.01] comprising iron or steel [1, 2006.01] |
| | by a single main group; | | · · |
| | , , , , , , , , , , , , , , , , , , , | 15/20 | comprising aluminium or copper [1, 2006.01] |

9/04

· comprising such substance as the main or only

- "particulate layer" means a layer of particles, e.g. chips, chopped fibres, powder.

9/00 Layered products essentially comprising a particular substance not covered by groups B32B 11/00-B32B 29/00 [1, 2006.01]

9/02 · comprising animal or vegetable substances [1, 2006.01]

5/24

· · one layer being a fibrous or filamentary

substance [1, 2006.01] 17/06 • comprising glass as the main or only constituent of a

• in the form of fibres or filaments [1, 2006.01]

bonded with or embedded in a plastic

Layered products essentially comprising sheet glass, or fibres of glass, slag or the like [1, 2006.01]

layer, next to another layer of a specific substance [1, 2006.01]

17/08 • • of cellulosic plastic substance [1, 2006.01]

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17/00

17/02

17/04

| 17/10 | • • of synthetic resin [1, 2006.01] | 27/02 | • in the form of fibres or filaments [1, 2006.01] |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 17/12 | • next to a fibrous or filamentary layer [1, 2006.01] | 27/04 | as impregnant, bonding, or embedding substance [1, 2006.01] |
| 18/00 | Layered products essentially comprising ceramics, e.g. refractory products [4, 2006.01] | 27/06 | • as the main or only constituent of a layer next to another layer of a specific substance [1, 2006.01] |
| 10/00 | I amount and the state of the same state of the | 27/08 | • • of synthetic resin of a different kind [1, 2006.01] |
| 19/00 | Layered products essentially comprising natural mineral fibres or particles, e.g. asbestos, | 27/10 | of paper or cardboard [1, 2006.01] |
| | mica [1, 2006.01] | 27/12 | next to a fibrous or filamentary layer [1, 2006.01] |
| 19/02 | bonded with or embedded in a plastic | 27/14 | next to a particulate layer [1, 2006.01] |
| 13702 | substance [1, 2006.01] | 27/16 | • specially treated, e.g. irradiated [1, 2006.01] |
| 19/04 | next to another layer of a specific | 27/18 | characterised by the use of special |
| | substance [1, 2006.01] | | additives [1, 2006.01] |
| 19/06 | • next to a fibrous or filamentary layer [1, 2006.01] | 27/20 | using fillers, pigments, thixotroping |
| 19/08 | comprising asbestos [1, 2006.01] | | agents [1, 2006.01] |
| | | 27/22 | using plasticisers [1, 2006.01] |
| 21/00 | Layered products essentially comprising wood, e.g. | 27/24 | using solvents or swelling agents [1, 2006.01] |
| | wood board, veneer, wood particle board [1, 2006.01] | 27/26 | using curing agents [1, 2006.01] |
| 21/02 | • in the form of fibres, chips, or particles [1, 2006.01] | 27/28 | comprising copolymers of synthetic resins not wholly |
| 21/04 | comprising wood as the main or only constituent of a | | covered by any one of the following |
| | layer, next to another layer of a specific | | subgroups [1, 2006.01] |
| 21 /00 | substance [1, 2006.01] | 27/30 | comprising vinyl resin; comprising acrylic |
| 21/06 | • • of paper or cardboard [1, 2006.01] | 0.5.400 | resin [1, 2006.01] |
| 21/08 | of synthetic resin; of fibre-reinforced resin [1, 2006.01] | 27/32 | • comprising polyolefins [1, 2006.01] |
| 21/10 | • Next to a fibrous or filamentary layer [1, 2006.01] | 27/34 | • comprising polyamides [1, 2006.01] |
| 21/10 | • next to a particulate layer [1, 2006.01] | 27/36 | • comprising polyesters [1, 2006.01] |
| 21/12 | • all layers being exclusively wood [3, 2006.01] | 27/38 | • comprising epoxy resins [1, 2006.01] |
| 21/13 | • comprising wood board or veneer [1, 2006.01] | 27/40 | • comprising polyurethanes [1, 2006.01] |
| 21/14 | Comprising wood board of Veneer [1, 2000.01] | 27/42 | • comprising condensation resins of aldehydes, e.g. |
| 23/00 | Layered products essentially comprising cellulosic | | with phenols, ureas or melamines [1, 2006.01] |
| | plastic substances [1, 2006.01] | 29/00 | Layered products essentially comprising paper or |
| 23/02 | in the form of fibres or filaments [1, 2006.01] | | cardboard [1, 2006.01] |
| 23/04 | comprising such substance as the main or only | 29/02 | next to a fibrous or filamentary layer [1, 2006.01] |
| | constituent of a layer, next to another layer of a | 29/04 | next to a particulate layer [1, 2006.01] |
| | specific substance [1, 2006.01] | 29/06 | specially treated, e.g. surfaced, |
| 23/06 | of paper or cardboard [1, 2006.01] | | parchmentised [1, 2006.01] |
| 23/08 | • • of synthetic resin [1, 2006.01] | 29/08 | Corrugated paper or cardboard [3, 2006.01] |
| 23/10 | • next to a fibrous or filamentary layer [1, 2006.01] | | |
| 23/12 | • next to a particulate layer [1, 2006.01] | | |
| 23/14 | characterised by containing special compounding | 33/00 | Layered products characterised by particular |
| 22/16 | ingredients [1, 2006.01] | 33700 | properties or particular surface features, e.g. |
| 23/16 | • • Modifying agents [1, 2006.01] | | particular surface coatings; Layered products |
| 23/18 | • Fillers [1, 2006.01] | | designed for particular purposes not covered by |
| 23/20 | • comprising esters [1, 2006.01] | | another single class [1, 2006.01] |
| 23/22 | • comprising ethers [1, 2006.01] | | |
| 25/00 | Layered products essentially comprising natural or synthetic rubber [1, 2006.01] | Methods or apparatus for making layered products; Treatment of the layers or of the layered products [2006.01] | |
| 25/02 | • with fibres or particles embedded in it or bonded with | | · · |
| 25/04 | it [1, 2006.01]comprising rubber as the main or only constituent of | | Note(s) [2006.01] In groups B32B 37/00 and B32B 39/00, the following |
| | a layer, next to another layer of a specific | | expressions are used with the meanings indicated: |
| 25 /06 | substance [1, 2006.01] | | "laminating" means the action of combining |
| 25/06 | • • of paper or cardboard [1, 2006.01] | | previously unconnected layers to become |
| 25/08 | • • of synthetic resin [1, 2006.01] | | one product whose layers will remain together; |
| 25/10 | • next to a fibrous or filamentary layer [1, 2006.01] | | "partial laminating" occurs when one layer |
| 25/12 | • comprising capalymers in which synthetic rubber | | does not fully cover a surface of another |
| 25/14 | comprising copolymers in which synthetic rubber constituents predominate [1, 2006.01] | | layer, whereby the layer with the greater |
| 25/16 | constituents predominate [1, 2000.01] comprising polydienes or poly- | | surface area is laminated on only part of its |
| 25/10 | halodienes [1, 2006.01] | | surface; |
| 25/18 | • comprising butyl or halobutyl rubber [1, 2006.01] | | "adhesive" means a layer, or part of a layer, applied in any state or in any manner, which |
| 25/20 | • comprising silicone rubber [1, 2006.01] | | applied in any state or in any manner, which is incorporated for the purpose of bonding. |
| | | | is incorporated for the purpose of boilding. |
| 27/00 | Layered products essentially comprising synthetic resin [1, 2006.01] | 37/00 | Methods or apparatus for laminating, e.g. by curing or by ultrasonic bonding [2006.01] |

| 37/02 | characterised by a sequence of laminating steps, e.g. by adding new layers at consecutive laminating stations [2006.01] |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 37/04 | characterised by the partial melting of at least one layer [2006.01] |
| 37/06 | characterised by the heating method [2006.01] |
| 37/08 | characterised by the cooling method [2006.01] |
| 37/10 | characterised by the pressing technique, e.g. using direct action of vacuum or fluid pressure [2006.01] |
| 37/12 | characterised by using adhesives [2006.01] |
| 37/14 | characterised by the properties of the |
| | layers [2006.01] |
| 37/15 | with at least one layer being manufactured and immediately laminated before reaching its stable state, e.g. in which a layer is extruded and laminated while in semi-molten state [2006.01] |
| 37/16 | with all layers existing as coherent layers before laminating [2006.01] |
| 37/18 | • • • involving the assembly of discrete sheets or panels only [2006.01] |
| 37/20 | • • • involving the assembly of continuous webs only [2006.01] |

involving the assembly of both discrete and

laminating, e.g. made up from granular material

sprinkled onto a substrate (B32B 37/15 takes

• • with at least one layer not being coherent before

continuous layers [2006.01]

precedence) [2006.01]

37/22

37/24

- • with at least one layer which influences the bonding during the laminating process, e.g. release layers or pressure equalising layers [2006.01]
- involving assembly of non-flat intermediate products which are flattened at a later step, e.g. tubes [2006.01]
- 37/30 Partial laminating [2006.01]

38/00 Ancillary operations in connection with laminating processes [2006.01]

- Punching, slitting or perforating [2006.01]
- 38/06 Embossing [2006.01]
- 38/08 Impregnating **[2006.01]**
- Removing layers, or parts of layers, mechanically or chemically [2006.01]
- 38/12 Deep-drawing **[2006.01]**
- 38/14 Printing or colouring **[2006.01]**
- 38/16 Drying; Softening; Cleaning **[2006.01]**
- Handling of layers or the laminate [2006.01]

39/00 Layout of apparatus or plants, e.g. modular laminating systems [2006.01]

- 41/00 Arrangements for controlling or monitoring lamination processes; Safety arrangements [2006.01]
- 41/02 Safety arrangements **[2006.01]**
- 43/00 Operations specially adapted for layered products and not otherwise provided for, e.g. repairing;
 Apparatus therefor [2006.01]

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