

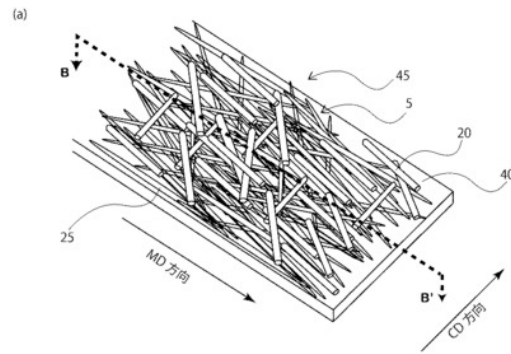
Fiber-reinforced plastic compact of backing material

JP2017002258

Date of publication: 2017-01-05

Applicant(s): Prince holdings

As for this invention, the fiber-reinforced plastic compact where it can raise entire strength it designates that the backing material for the fiber-reinforced plastic compact which can form is offered as topic. As for this invention, being with the backing material for the strengthening fiber and includes fiber-reinforced plastic compact thermoplastic resin which, as for the strengthening fiber, it is the flat glass fiber, fiber orientation parameter of the thickness direction in the backing material for the fiber-reinforced plastic compact (fp) it regards the backing material for the fiber-reinforced plastic compact which features that absolute value is the 0.5~1.0.



Metal ceramic composite material

DE102015212335

Date of publication: 2017-01-05

Applicant(s): Fraunhofer

The invention relates to the field of material science, and relates to a metal-ceramic composite material, such as for use in motor vehicles can be used. The object is to provide a metal-ceramic material compound, which has high mechanical strength and high damage tolerance and furthermore to provide a method for its production. This is achieved by a metal-ceramic composite material comprising at least one ceramic material and at least one metallic material, wherein the metallic material in the form of a network-like textile fabric is present, and the ceramic material within and around the network-like textile structures and providing the open volume of the network-like textile fabric at least 10% to at most 95% crucible, and the ceramic and metallic material in the region of their common arrangement at least partially form - connected positively, wherein at least on a surface of the metal-ceramic material composite only the metallic material is provided

Processing mixed textile feedstock, isolating constituent molecules

WO2017019802

Date of publication: 2017-02-02

Applicant(s): EVRNU

Methods and systems of the present invention use mixed textile feedstock, which may include post-consumer waste garments, scrap fabric and/or other textile materials as a raw feed material to produce isolated cellulose and other isolated molecules having desirable properties that can be used in the textile and apparel industries, and in other industries. A multi-stage process is provided, in which mixed textile feed material is subjected to one or more pretreatment stages, followed by at least two pulping treatments for isolating cellulose molecules and other molecular constituents, such as polyester. The isolated cellulose and polyester molecules may be used in a variety of downstream applications. In one application, isolated cellulose and polyester molecules are extruded to provide regenerated cellulose fibers and regenerated polyester fibers having desirable (and selectable) properties that are usable in various industrial applications, including textile production.

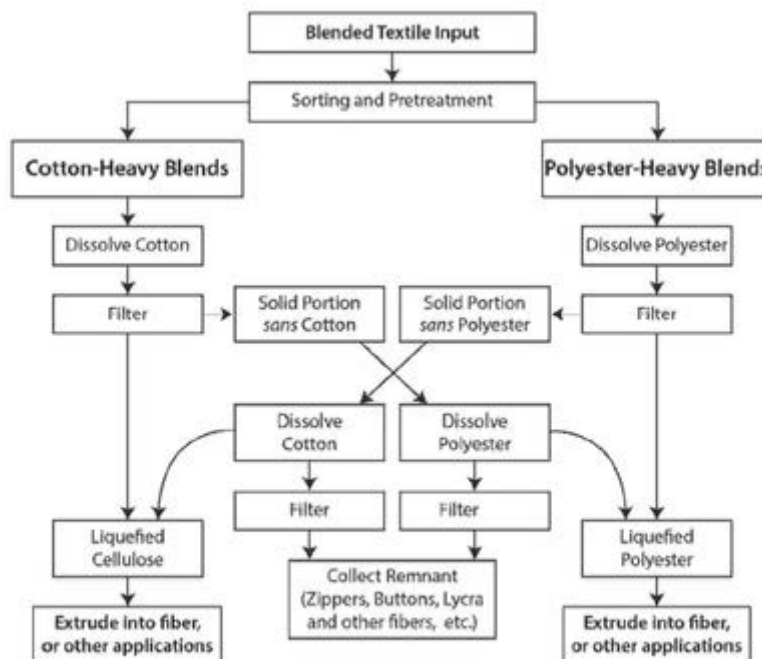


FIGURE 1

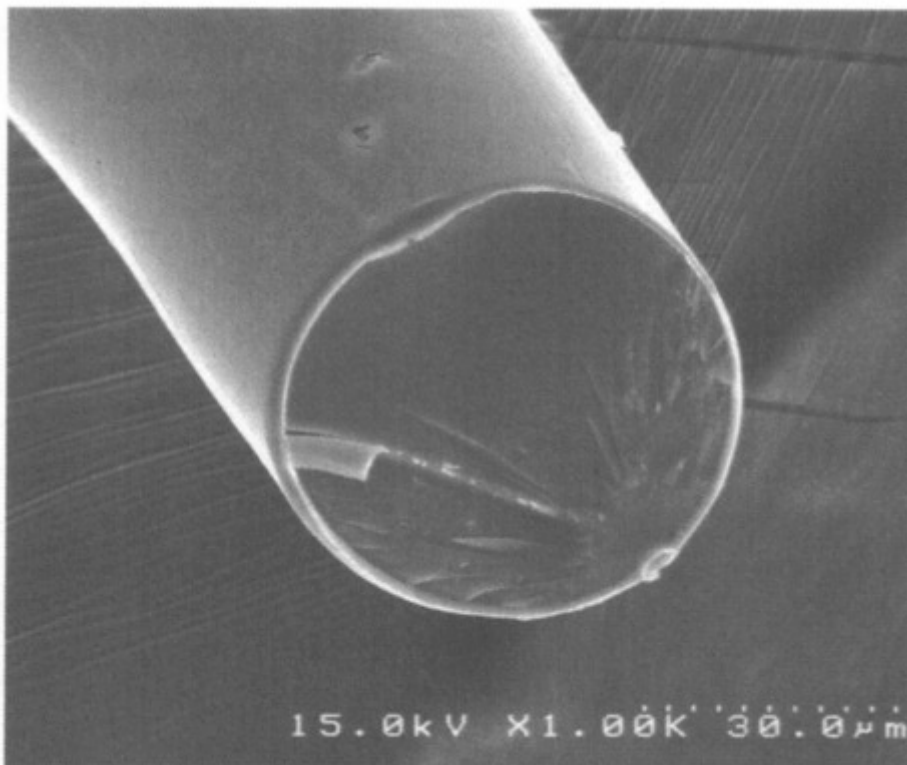
Metallic coating glass fiber for plastic reinforcement

JP2017014090

Date of publication: 2017-01-19

Applicant(s): Central Glass

As for this invention, when it makes the plastic material disperse, it designates that the kind of glass fiber which can make the grant of electromagnetic shielding characteristic strength reinforcement and the plastic material of the plastic material is offered as topic. SOLUTION: The metallic coating glass fiber of this invention is the metallic coating glass fiber which has with the metallic coating which was covered to the whole of the peripheral aspect of the glass fiber and the said glass fiber, thickness of the aforementioned metallic coating is 0.3~1.5 μm , the aforementioned metallic coating in the aforementioned metallic coating glass fiber the 0.7~84 volume %. To designate the metal molten liquid where the said coating fiber blots from the hole of the fusion furnace of the metal in order and to form metallic coating being production method of the metallic coating glass fiber which is made to contact the metal molten liquid which appears, blots from the hole and appears as the liquid drop of dome condition, can the glass fiber which was pulled out from the bush nozzle of the glass fusion furnace, obtain by the fact that it presses the aforementioned glass fiber to the central direction of the aforementioned liquid drop when contacting to the aforementioned liquid drop of the aforementioned glass fiber.



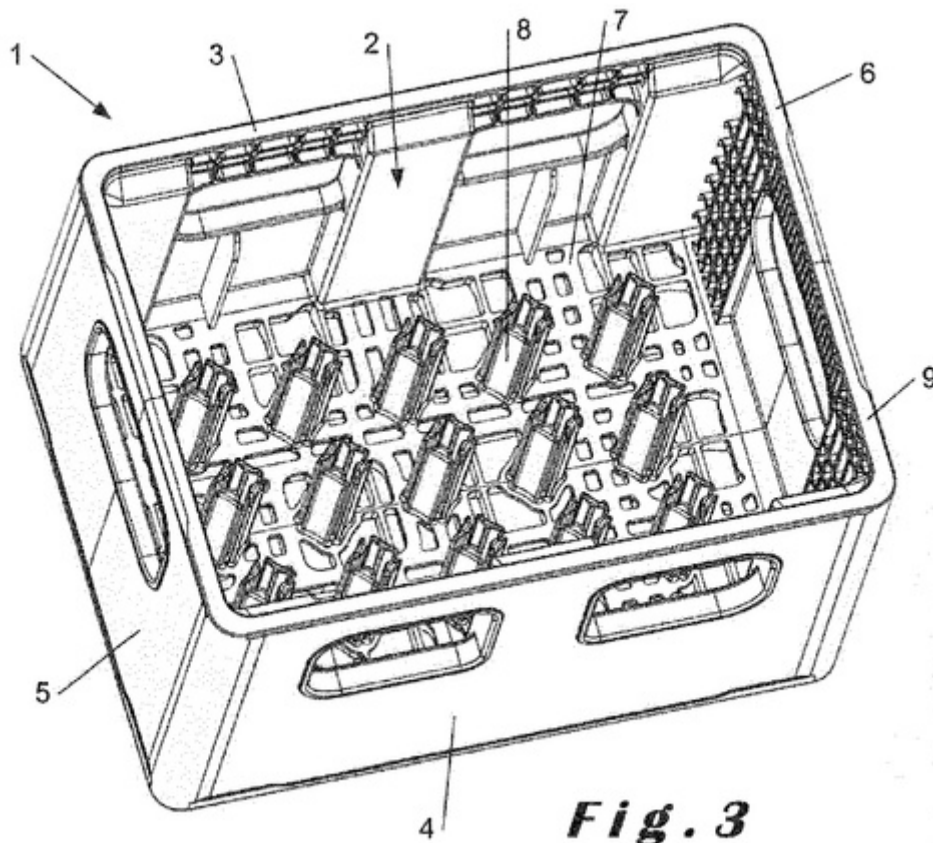
Bottle crate with split pinnacles in foamed plastic

EP3135595

Date of publication: 2017-03-01

Applicant(s): DW Plastics

Bottle crate comprising split pinnacles, extending upward from a bottom wall structure up to a predetermined height and defining storage spaces in the crate for storing bottles individually or in bottle packs. The split pinnacles each comprise at least two pinnacle parts which are provided for maintaining a predetermined clearance between the bottles of the predetermined type, to prevent that the bottles can contact each other, and which are spaced from each other by slots of a predetermined width for accommodating packaging material of the bottle packs. At least the bottom wall structure and the split pinnacles are part of an integrally produced unit made of foamed plastic and produced by injection moulding, the pinnacle parts having a wall thickness between 2.0 and 8.0 mm.



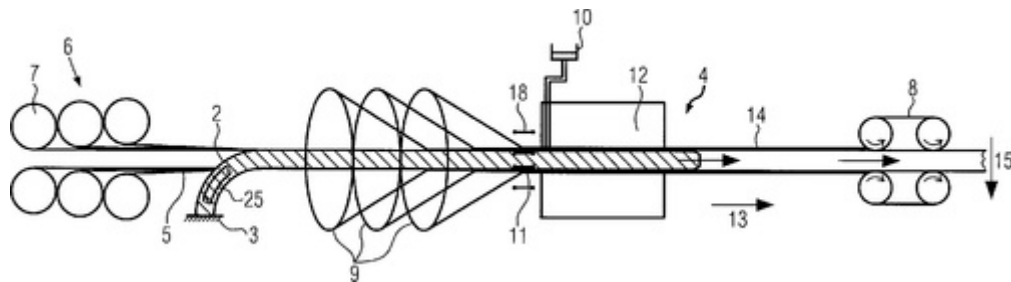
Braiding pultrusion device for fiber reinforced plastic hollow profile

DE102015214909

Date of publication: 2017-02-09

Applicant(s): BMW

A braided pultrusion apparatus (1) for manufacturing a fiber-reinforced plastic hollow profile (14) machine, a braid core (2) and a storage (6) device for reinforcing (5) fibers and a braided device with at least one Flechtrad (9) for applying fiber material at an angle to the braiding core (2) unidirectionally applied fibers (21) to provide a fiber hollow braid (11) and with matrix material provided hollow braid (11) strengthening consolidation device (4), fibers utilizing the consolidation direction (4) a from the fiber hollow braid (11) in axial direction by releasable inner (12) space, the braided pultrusion apparatus (1) comprises means (18), the braiding core (2) relative to the internal (12) space in at least one gravity (15) opposite direction without contact supports.



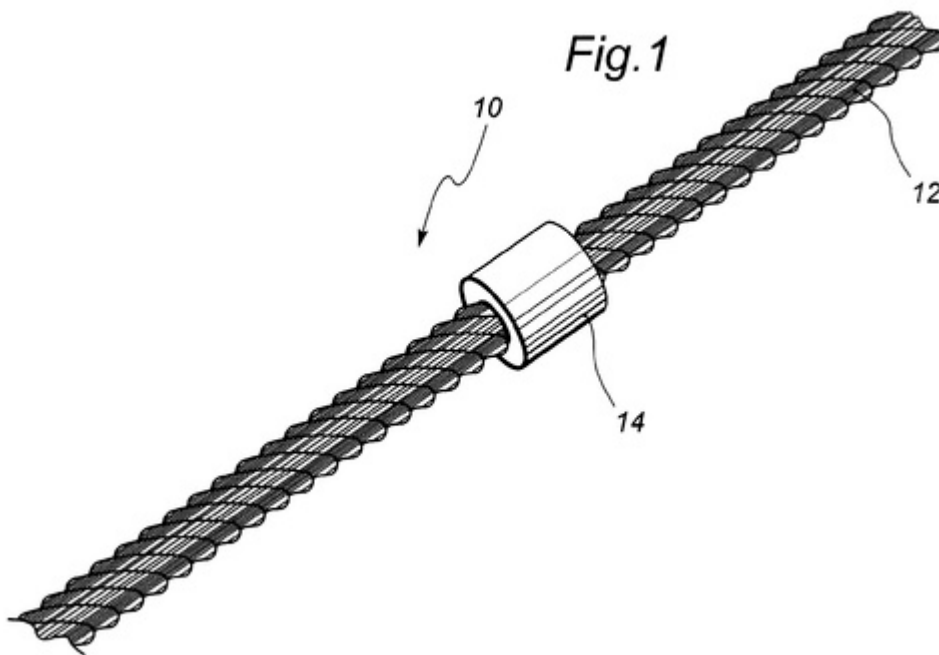
Diamond wire with pearls or beads applied directly to its surface

WO2017016622

Date of publication: 2017-02-02

Applicant(s): Ferriera di cittadella

A diamond wire (10) for cutting blocks of marble, granite and stone materials in general and different materials, comprises a steel cable (12) of several strands provided with a plurality of beads (14) axially perforated. These beads are strung on the cable itself and suitably spaced from each other depending on the type and properties of the material to be cut. The beads (14) are made of plastic polymers impregnated with synthetic diamond granules and are bound to the cable (12) by means of a self-locking function



Mattress containing microencapsulated phase change material

US2017020299

Date of publication: 2017-01-26

Applicant(s): Milliken

A mattress containing a core section, a high loft non-woven layer at least partially covering a first side of the core section and containing a plurality of heat and flame resistant fibers, bulking fibers, and binder fibers, a ticking layer at least partially covering the high loft non-woven layer and containing a textile layer, a pattern coated layer. The pattern coated layer may be printed on the high loft non-woven layer, the ticking layer, or any layer between the high loft non-woven layer and the ticking layer. The pattern coated layer contains a blend of microencapsulated phase change material (PCM) and a binder, wherein the PCM is fully encapsulated by the binder.

