

Packaging films made of recycling plastics

Patent number: EP3858608

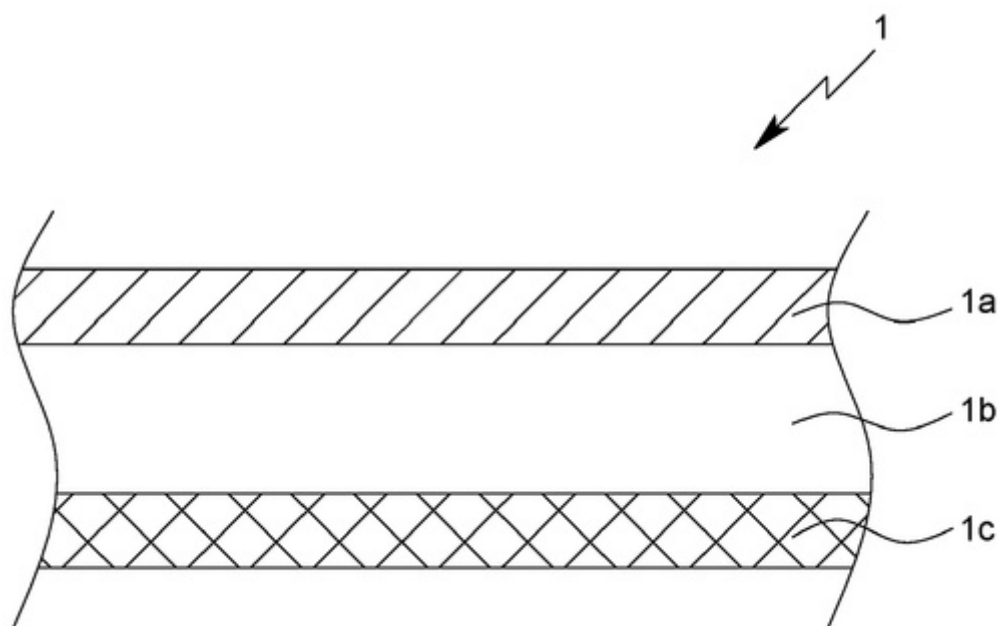
Date of publication: 2021-08-04

Applicant(s): KBG KUNSTSTOFF BETEILIGUNGEN

Inventor: RIEKER FRANK

Abstract: The invention relates to a multilayer polymer film, especially a multilayer polymer composite film, preferably a multilayer polymer packaging film, based on recycled plastic, especially based on recycled plastic originating from waste, having a recycled plastic level of at least 80% by weight, based on the polymer film, and to the use thereof, especially as packaging material. The recycled plastic is preferably post-consumer plastic recyclate (PCR plastic recyclate), preferably recycled PCR films.

(From WO2021151627 A1)



Measuring method and measuring apparatus for inline inspection of plastic films

Patent number: WO2021/073670

Date of publication: 2021-04-15

Applicant(s): KIEFEL

Inventor: HAUSMANN MATTHIAS, SCHMID SONJA

Abstract: The invention relates to a measuring apparatus (1) for contactless inline inspection of plastic films (2) with the use of trained algorithms, to a corresponding measuring method (100), and to a plastic-processing plant (10) that has such a measuring apparatus comprising: a measuring unit (3) which is designed to emit light (L) in the infrared spectral range, preferably between 1300nm and 2600nm, towards the plastic films and to measure measurement data in the form of optical measurement spectra (MS) in the reflection of the light by the plastic film or in the transmission of the light through the plastic film; and an evaluation unit (4) which is designed to determine at least one of the properties (M) of the plastic film on the basis of a classification of the measurement data by one or more algorithms (41) trained beforehand using optical training spectra (TS) under conditions similar to those for the measurement spectra with plastic films having known properties, the algorithm(s) calculating one or more mathematical transformation rules which transfer the training data characteristically for the known properties of the plastic film into a multi-dimensional results domain, and said algorithm(s) likewise calculating, during the inline inspection, the one or more mathematical transformation rules which transfer the measurement data into the multi-dimensional results domain, thereby determining the at least one property of the plastic film in correlation with the training data and the multi-dimensional results domain.

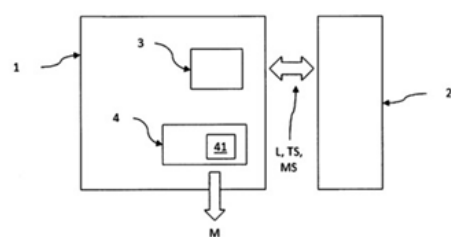


Fig.1

Packaged plant, method for maintaining freshness to plants, method for packaging plants, plant package and device for packaging plants

Patent number: NL2023613

Date of publication: 2021-02-16

Applicant(s): GARTNERIET THORUPLUND FRAUGDE

Inventor: JØRGEN KURT ANDERSEN

Abstract: Described is a living plant package, comprising a plant, at least comprising one or more stems and one or more flowers and/or leaves grown from the said stem, the said plant being packaged in a closed plastic foil, defining a closed inner space accommodating the plant, the foil comprising micro-perforations of 1 — 200 μm , allowing exchange of at least oxygen and carbon dioxide through the said perforations between the inner space and the environment, as well as a method for packaging a living plant into such a living plant package, package material for the preparation of such a living plant package, a method for maintaining freshness to a living plant, and a device for the preparation of such living plant packages.

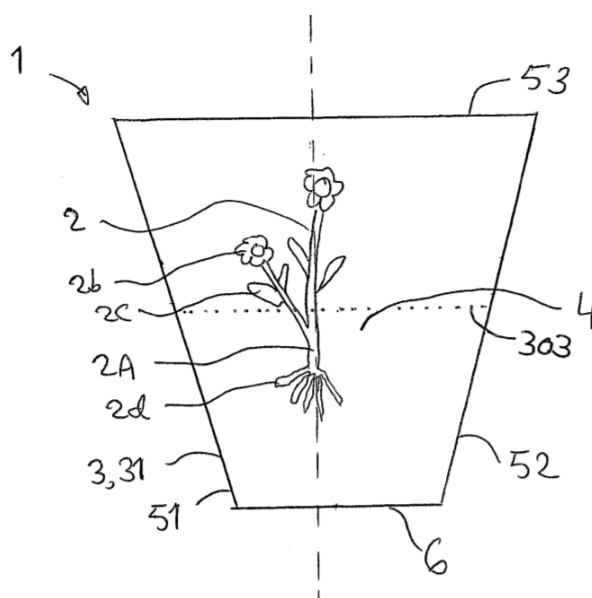


Fig. 1.

Packaging apparatus and process

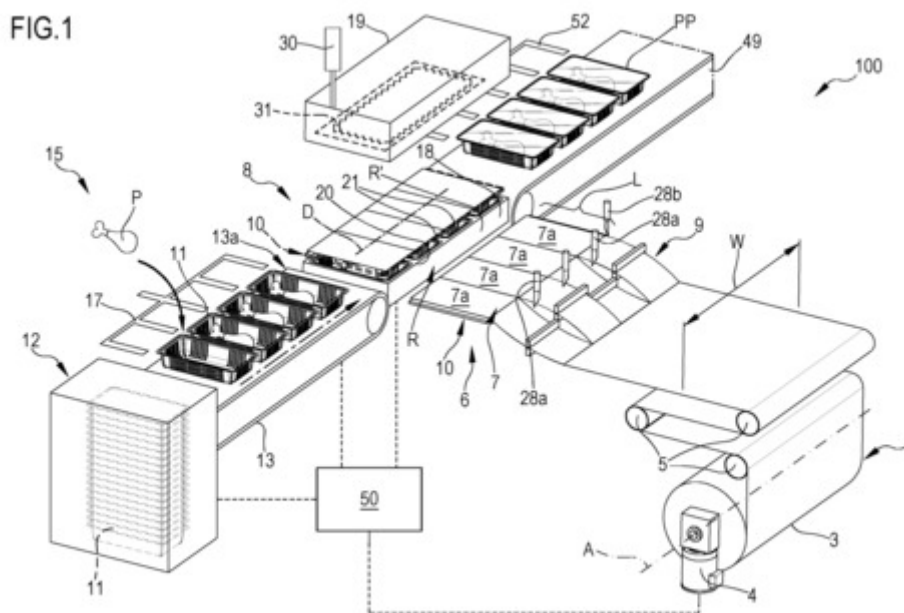
Patent number: WO2021/197978

Date of publication: 2021-10-07

Applicant(s): CRYOVAC

Inventor: COLAONE MATTEO, MCINTYRE DUNCAN

Abstract: A process and an apparatus for packaging include a film supplying station (1) presenting a roll support (1a) configured to receive a feed roll (2) and to rotate it around a respective unwinding axis (A) to unroll consecutive portions of plastic film (3). A selected unrolled portion having width (W) significantly greater than its length (L) is positioned inside a packaging station with the width (W) aligned along the alignment direction (D) of a row of product loaded supports to be packaged. The packaging station () heat seals the selected unrolled portion to the underlying row of product loaded supports.



Polyethylene film and process for producing polyethylene film

Patent number: EP3889359

Date of publication: 2021-10-06

Applicant(s): RECYPLAST HOLDING

Inventor: MARTI SILVIO, DICKEN VON OETINGER CHRISTOPH

Abstract: A method of making a film of polyethylene comprising the steps of providing a first granulate of recycle derived from the composite film of used beverage cartons and consisting of LDPE and small aluminum particles, Providing a second granulate of HDPE, co-extruding the granulates to form a homogeneous, flowable polyethylene mixture, forcing the flowable polyethylene mixture through a slot die 16 so that a film with embedded aluminium particles is formed.

By means of the method, it is possible to produce, in particular, a knobbed film for the protection of ground walls. The embedded aluminum particles increase the strength.

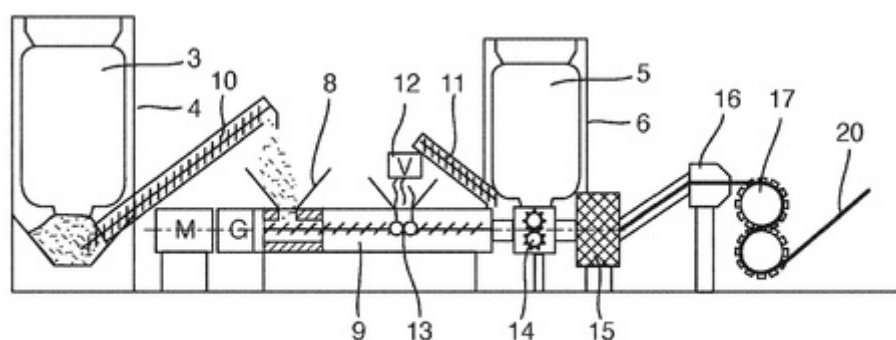


Fig. 1b

Packaging with extendable plastic film with simplified gripping

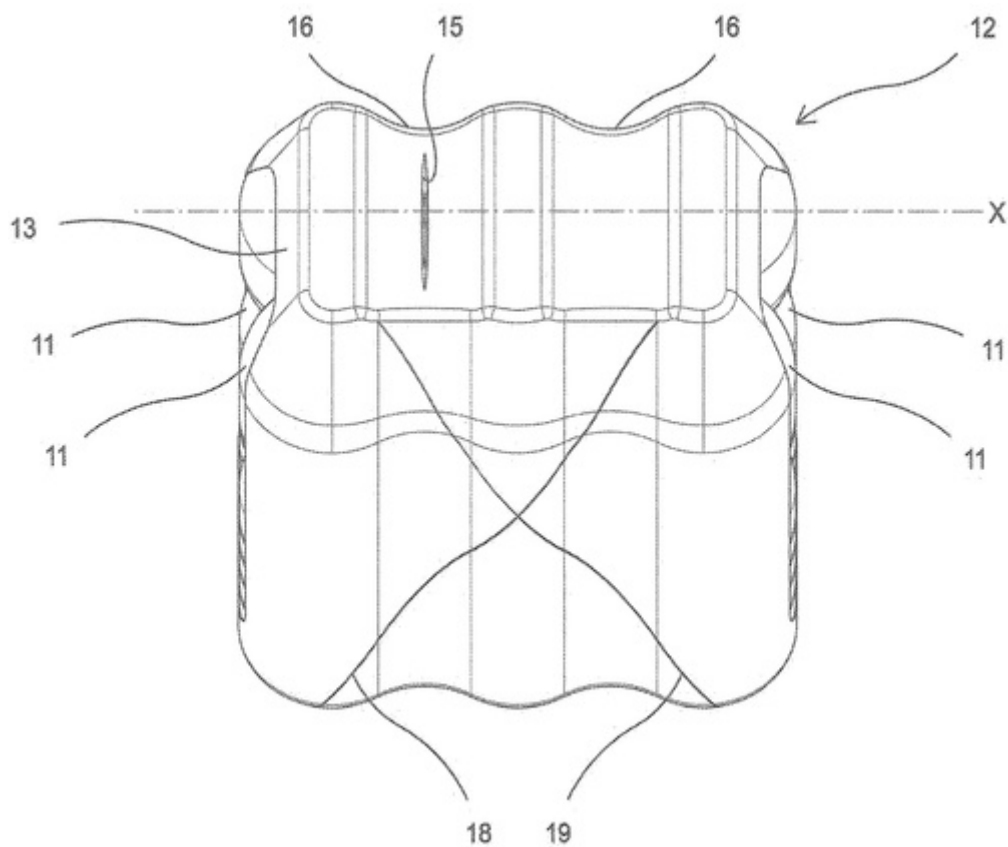
Patent number: US20210323703

Date of publication: 2021-10-21

Applicant(s): COLINES

Inventor: Peccetti Francesco

Abstract: A packaging adapted to contain products, which is made with an extendable plastic film and has a simplified gripping, and in which the extendable plastic film is wrapped around the products with at least one coil to form a bundle, has on its upper surface only one notch configured to provide a gripping point of the packaging for a user.



Film-packaged tissue pack package and method for manufacturing film-packaged tissue pack package

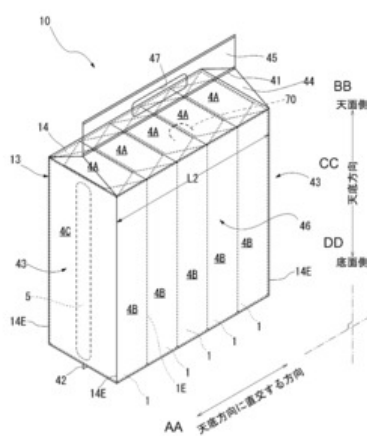
Patent number: WO2021/065604

Date of publication: 2021-04-08

Applicant(s): DAIO SEISHI

Inventor: YOSHIDA, Shohei

Abstract: To provide a film-packaged tissue pack package which prevents unintended breakage of a pull-out opening formation section. [Solution] The problem is solved by a film-packaged tissue pack package comprising multiple film-packaged tissue packs, each having a top surface with a pull-out opening formation section and being formed in a substantially cuboid shape, which are arranged and packaged in a gusset-packaging bag having a handle part on a top surface side, wherein the multiple film-packaged tissue packs are arranged into a substantially cuboid shape with end faces thereof respectively facing the top surface side where the handle part is provided and a bottom surface side opposite the top surface side, the pull-out opening formation section of each film-packaged tissue pack has a shape in which an easy-to-break line constituted by alternating cut parts and non-cut parts forms an outwardly convex shape, the gap between non-cut parts located on one end part is shorter than the gap between non-cut parts located on the other end part, and the film-packaged tissue packs are packaged so that the side where the end part having the shorter gap between the non-cut parts is positioned on the top surface.



AA Direction orthogonal to top-bottom direction
 BB Top surface side
 CC Top-bottom direction
 DD Bottom surface side

Flexible film packaging

Patent number: EP3892569

Date of publication: 2021-07-05

Applicant(s): ATHANASIOS D KOUKOUTARIS A E V E

Inventor: KOUKOUTARIS DIONYSIOS

Abstract: This invention is a special flexible film packaging, made of various materials, which is used for baking frozen dough products or for warming already baked dough products, from flour of any type directly from the freezer. In this case, the invention consists of paper only or from paper and polypropylene "window", polyester, cellophane or polylactide (PLA) or polyester only (Plan F). Also, this invention is a package suitable for storing dough products in the freezer. In this invention, there is no need to transfer the product out of its packaging to the home baking dish but immediately after its purchase or after its freezing in a home freezer the flour dough product of any type can be transferred along with the invention directly to the oven or microwave oven for baking or heating, respectively, without having to remove the invention and separate it from the product.