Title (en)

POLYMERIC ARTICLES COMPRISING BLENDS OF PBAT, PEA AND A CARBOHYDRATE-BASED POLYMERIC MATERIAL

Title (de)

POLYMERARTIKEL MIT MISCHUNGEN AUS PBAT, PEA UND EINEM POLYMEREN MATERIAL AUF KOHLENHYDRATBASIS

Title (fr)

ARTICLES POLYMÈRES COMPRENANT DES MÉLANGES DE PBAT, DE PEA ET D'UN MATÉRIAU POLYMÈRE À BASE D'HYDRATE DE CARBONE

Publication

EP 3997171 A1 20220518 (EN)

Application

EP 20837209 A 20200710

Priority

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- US 2020041643 W 20200710

Abstract (en)

[origin: WO2021007534A1] Composite blends ofPBAT (or another similar polyester) with PLA and a carbohydrate-based polymeric material. While PLA is not compostable under home composting conditions (e.g., temperature of 28°C) on its own, when blended in the manner described herein, it is compositable under such conditions. The addition of the PLA increases the rigidity of the composite blend, as PBAT on its own is so flexible as to be problematic for use in carryout bags, and the like. An exemplary blend may include 30-55% by weight of the carbohydrate- based polymeric material, up to 20%, or up to 15% by weight of PLA, with the balance of polymeric content being PBAT (e.g., 30-60% PBAT). Other components (e.g., an inorganic filler, such as calcium carbonate) may also be included in the blend.

IPC 8 full level

C08L 23/06 (2006.01); **C08L 3/02** (2006.01)

CPC (source: EP KR)

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