

Title (en)

GLASS BODY LAYER, GLASS BODY BUNDLE AND PACKAGING METHOD

Title (de)

GLASKÖRPERLAGE, GLASKÖRPERBÜNDEL SOWIE PACKVERFAHREN

Title (fr)

COUCHE D'ÉLÉMENTS EN VERRE, PAQUET D'ÉLÉMENTS EN VERRE, ET PROCÉDÉ D'EMBALLAGE

Publication

**EP 3666680 B1 20230913 (DE)**

Application

**EP 19215498 A 20191212**

Priority

DE 102018221782 A 20181214

Abstract (en)

[origin: US2020189838A1] A glass article layer is provided that includes at least two cylindrical glass articles extending in a z-direction and arranged side by side in an x-direction. Two spacers are provided spaced apart from one another at an interval longitudinally of the glass article in the z-direction. The spacers are arranged between the glass articles. The spacers are thread-like elements and at least one of the thread-like elements is provided at each spacer position.

IPC 8 full level

**B65D 57/00** (2006.01); **B65D 71/02** (2006.01); **B65D 81/05** (2006.01); **B65D 85/20** (2006.01); **B65D 85/30** (2006.01); **B65D 85/62** (2006.01); **D05B 23/00** (2006.01)

CPC (source: CN EP US)

**B65B 19/34** (2013.01 - CN); **B65B 23/22** (2013.01 - CN); **B65D 57/00** (2013.01 - EP); **B65D 71/00** (2013.01 - CN); **B65D 71/02** (2013.01 - CN EP US); **B65D 81/02** (2013.01 - CN); **B65D 81/05** (2013.01 - EP); **B65D 85/20** (2013.01 - CN EP US); **B65D 85/30** (2013.01 - CN); **B65D 85/307** (2013.01 - EP); **B65D 85/42** (2013.01 - US); **B65D 85/62** (2013.01 - EP); **B65D 2571/00679** (2013.01 - EP); **D05B 23/00** (2013.01 - EP)

Citation (examination)

US 2014196402 A1 20140717 - MADER LEOPOLD [AT], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3666680 A1 20200617**; **EP 3666680 B1 20230913**; CN 111319881 A 20200623; CN 111319881 B 20230428; DE 102018221782 A1 20200618; JP 2020097449 A 20200625; JP 7485508 B2 20240516; US 11352197 B2 20220607; US 2020189838 A1 20200618

DOCDB simple family (application)

**EP 19215498 A 20191212**; CN 201911294642 A 20191216; DE 102018221782 A 20181214; JP 2019225425 A 20191213; US 201916715872 A 20191216