

Title (en)  
A BIO-AGGREGATE BASED BUILDING PRODUCT

Title (de)  
AUF BIO-AGGREGAT BASIERENDES BAUPRODUKT

Title (fr)  
PRODUIT DE CONSTRUCTION À BASE DE BIO-AGRÉGAT

Publication  
**EP 4077237 A1 20221026 (EN)**

Application  
**EP 21703504 A 20210122**

Priority  
GB 2021050139 W 20210122

Abstract (en)  
[origin: WO2022157466A1] The present invention relates to a bio-aggregate based building product comprising a macroporous element formed from a mixture of: a calcium carbonate derived binder and a lignocellulosic bio-aggregate. The macroporous element has an air and/or vapour and/or water open matrix with a microcapillary structure formed by the lignocellulosic bio-aggregate. The porosity of the macroporous element is at least 50% of the bulk volume of the building product. Between 40% and 80% by weight of bio-aggregate granulates forming the lignocellulosic bio-aggregate have a maximum particle size falling within the lower 50% of the particle size range. No more than 5% by weight of bio-aggregate granulates forming the lignocellulosic bio-aggregate have a maximum particle size falling within the upper 20% of the particle size range.

IPC 8 full level  
**C04B 18/02** (2006.01); **C04B 18/28** (2006.01); **C04B 20/00** (2006.01); **C04B 28/04** (2006.01); **C04B 28/10** (2006.01); **E04C 2/16** (2006.01)

CPC (source: EP KR US)  
**C04B 12/04** (2013.01 - KR); **C04B 14/06** (2013.01 - KR); **C04B 14/48** (2013.01 - KR US); **C04B 18/021** (2013.01 - EP KR); **C04B 18/24** (2013.01 - KR); **C04B 18/248** (2013.01 - KR US); **C04B 18/28** (2013.01 - EP KR); **C04B 20/0088** (2013.01 - EP KR); **C04B 22/064** (2013.01 - KR); **C04B 22/066** (2013.01 - KR); **C04B 24/38** (2013.01 - KR); **C04B 24/383** (2013.01 - KR); **C04B 28/04** (2013.01 - EP KR); **C04B 28/10** (2013.01 - EP KR); **C04B 28/12** (2013.01 - US); **C04B 38/10** (2013.01 - US); **E04C 2/16** (2013.01 - EP KR); **C04B 2103/0079** (2013.01 - KR); **C04B 2103/008** (2013.01 - KR); **C04B 2103/30** (2013.01 - US); **C04B 2103/302** (2013.01 - KR); **C04B 2111/00181** (2013.01 - EP KR); **C04B 2111/00267** (2013.01 - EP KR); **C04B 2111/40** (2013.01 - US); **Y02W 30/91** (2015.05 - EP)

C-Set (source: EP)  
1. **C04B 18/021 + C04B 18/24 + C04B 18/248 + C04B 20/0088**  
2. **C04B 28/04 + C04B 12/04 + C04B 14/06 + C04B 14/48 + C04B 18/24 + C04B 18/248 + C04B 20/0088 + C04B 22/064 + C04B 22/066 + C04B 24/38 + C04B 24/383 + C04B 2103/302**  
3. **C04B 28/04 + C04B 14/06 + C04B 18/24 + C04B 18/248 + C04B 20/0048 + C04B 20/0088 + C04B 22/064 + C04B 2103/0079 + C04B 2103/008 + C04B 2103/302**

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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022157466 A1 20220728**; AU 2021418332 A 20220901; CA 3165695 A1 20220722; CN 116981647 A 20231031; EP 4077237 A1 20221026; JP 2024508573 A 20240228; KR 20230159236 A 20231121; MX 2023008582 A 20230808; US 2024010563 A1 20240111

DOCDB simple family (application)  
**GB 2021050139 W 20210122**; AU 2021418332 A 20210122; CA 3165695 A 20210122; CN 202180094580 A 20210122; EP 21703504 A 20210122; JP 2022545129 A 20210122; KR 20227027935 A 20210122; MX 2023008582 A 20210122; US 202117794474 A 20210122