

Title (en)  
EFFICIENT INTEGRATION OF MANUFACTURING OF UPCYCLED CONCRETE PRODUCT INTO POWER PLANTS

Title (de)  
EFFIZIENTE INTEGRATION DER HERSTELLUNG EINES UPCYCLING-BETONPRODUKTS IN KRAFTWERKE

Title (fr)  
INTÉGRATION EFFICACE DE LA FABRICATION D'UN PRODUIT À BASE DE BÉTON DE RECYCLAGE VALORISÉ DANS DES CENTRALES ÉLECTRIQUES

Publication  
**EP 3532445 A4 20200617 (EN)**

Application  
**EP 17865241 A 20171025**

Priority  

- US 201662413365 P 20161026
- US 2017058359 W 20171025

Abstract (en)  
[origin: WO2018081310A1] A manufacturing process of a concrete product includes: (1) extracting calcium from solids as portlandite; (2) forming a cementitious slurry including the portlandite; (3) shaping the cementitious slurry into a structural component; and (4) exposing the structural component to carbon dioxide sourced from a flue gas stream, thereby forming the concrete product.

IPC 8 full level  
**C04B 7/02** (2006.01); **C04B 7/36** (2006.01); **C04B 40/02** (2006.01)

CPC (source: EP)  
**C04B 7/02** (2013.01); **C04B 7/36** (2013.01); **C04B 40/02** (2013.01); **Y02P 40/121** (2015.11); **Y02P 40/18** (2015.11); **Y02W 30/91** (2015.05)

C-Set (source: EP)  
**C04B 7/02** + **C04B 18/08** + **C04B 40/02**

Citation (search report)  

- [Y] WO 2016061251 A1 20160421 - UNIV CALIFORNIA [US], et al
- [Y] WO 2014005227 A1 20140109 - CO2 SOLUTIONS INC [CA]
- See also references of WO 2018081310A1

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)  
**WO 2018081310 A1 20180503**; CN 110382435 A 20191025; CN 110382435 B 20220510; EP 3532445 A1 20190904; EP 3532445 A4 20200617

DOCDB simple family (application)  
**US 2017058359 W 20171025**; CN 201780076640 A 20171025; EP 17865241 A 20171025