

Title (en)

A PROCESS OF PRODUCING SOIL AMENDMENT FROM ORGANIC WASTE, AND A FERTILIZER PRODUCED FROM SAME

Title (de)

VERFAHREN ZUM PRODUZIEREN VON BODENVERBESSERUNGEN AUS ORGANISCHEN ABFÄLLEN UND EIN DARAUS PRODUZIERTES DÜNGEMITTEL

Title (fr)

PROCÉDÉ DE PRODUCTION D'AMENDEMENT DU SOL À PARTIR DE DÉCHETS ORGANIQUES ET ENGRAIS PRODUIT À PARTIR DE CELUI-CI

Publication

**EP 4097070 A4 20240306 (EN)**

Application

**EP 21748252 A 20210127**

Priority

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- NO 2021050023 W 20210127

Abstract (en)

[origin: WO2021154088A1] A process of producing soil amendment from organic waste by feeding wet organic waste (101) with biochar (118) and wood (102) to form a feed mixture (106) to a composting drum (107) where The mixture is subjected to microbial aerobic conversion to produce a solid phase(108) comprising compost, biochar and water, and a gaseous phase(119) comprising humid air, CO<sub>2</sub> and ammonia. Moisture in solid phase(108) is removed in a dryer (109) to produce dry compost (110), which is fed to a separator (111) to extract structural material from compost. Compost in conduit (112) is fed to a mixer (113), and mixed with an aqueous solution (121) containing ammonia from scrubber (120) and composting drum (107) and other components to produce fertilizer(114). A pyrolysis reactor (123) converts structural material (101) and waste (102) to a gaseous phase and a carbonaceous solid phase (126) for use as carbon source in the fertilizer (114, 115).

IPC 8 full level

**C05F 17/10** (2020.01); **C05C 1/02** (2006.01); **C05C 3/00** (2006.01); **C05F 3/06** (2006.01); **C05F 9/04** (2006.01); **C05F 11/02** (2006.01); **C05F 17/40** (2020.01); **C05F 17/60** (2020.01); **C05F 17/90** (2020.01); **C05G 5/12** (2020.01)

CPC (source: EP NO)

**C05C 1/02** (2013.01 - EP); **C05C 3/005** (2013.01 - EP); **C05F 3/06** (2013.01 - EP); **C05F 9/04** (2013.01 - EP); **C05F 11/02** (2013.01 - EP); **C05F 17/10** (2020.01 - EP NO); **C05F 17/40** (2020.01 - EP); **C05F 17/60** (2020.01 - EP); **C05F 17/90** (2020.01 - EP); **C05G 5/12** (2020.02 - EP); **Y02P 20/145** (2015.11 - EP NO); **Y02W 30/40** (2015.05 - EP NO)

Citation (search report)

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- [A] EP 2977440 A1 20160127 - AGROITTICA ACQUA E SOLE S P A [IT]
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- [X] EP 3241818 A1 20171108 - AC INNOVATIONS LTD [GB]
- See also references of WO 2021154088A1

Designated contracting state (EPC)

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