

Title (en)  
PROCESS AND DEVICE FOR CONTINUOUS THERMAL HYDROLYSIS

Title (de)  
VERFAHREN UND VORRICHTUNG FÜR KONTINUIERLICHE THERMISCHE HYDROLYSE

Title (fr)  
PROCÉDÉ ET DISPOSITIF D'HYDROLYSE THERMIQUE EN CONTINU

Publication  
**EP 2978715 A1 20160203 (FR)**

Application  
**EP 14709237 A 20140306**

Priority  
• FR 1352686 A 20130325  
• EP 2014054388 W 20140306

Abstract (en)  
[origin: WO2014154466A1] Process, and associated device, for continuous thermal hydrolysis of sludge containing organic matter, said process comprising the steps consisting in: simultaneously carrying out the injection of pressurized steam (100) into said sludge and the mixing of said sludge with said steam by means of a dynamic injector-mixer (4) so as to obtain a single-phase mixture, conveying said single-phase mixture to a pressurized tubular reactor (5) and bringing about the plug flow of this mixture in said reactor for a sufficient residence time and at a sufficient temperature to enable the thermal hydrolysis of the organic matter present in said sludge, cooling said single-phase mixture at its outlet from said tubular reactor to a temperature that allows the subsequent digestion of the hydrolysed organic matter that it contains; depressurizing said cooled single-phase mixture.

IPC 8 full level  
**C02F 11/18** (2006.01); **C02F 1/02** (2006.01); **C02F 11/04** (2006.01)

CPC (source: EP RU US)  
**C02F 11/04** (2013.01 - EP US); **C02F 11/18** (2013.01 - EP RU US); **C02F 1/025** (2013.01 - EP US); **C02F 2201/002** (2013.01 - US); **C02F 2209/02** (2013.01 - EP US); **C02F 2209/03** (2013.01 - EP US); **C02F 2301/066** (2013.01 - EP US); **C02F 2303/06** (2013.01 - EP US); **Y02W 10/30** (2015.05 - EP)

Citation (search report)  
See references of WO 2014154466A1

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**FR 3003558 A1 20140926; FR 3003558 B1 20150424**; AU 2014243326 A1 20151112; AU 2014243326 B2 20180315; CA 2906159 A1 20141002; CA 2906159 C 20200211; CN 105050967 A 20151111; CN 111302602 A 20200619; CN 111302602 B 20230428; EP 2978715 A1 20160203; HK 1217476 A1 20170113; JP 2016517792 A 20160620; JP 6458001 B2 20190123; KR 102067167 B1 20200117; KR 20150133207 A 20151127; MX 2015013302 A 20151215; MX 369384 B 20191106; RU 2015145809 A 20170503; RU 2654013 C2 20180515; US 10322959 B2 20190618; US 2016185640 A1 20160630; WO 2014154466 A1 20141002

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