

Title (en)  
A PROCESS TO CONVERT TOTAL AMMONIA NITROGEN

Title (de)  
VERFAHREN ZUR UMWANDLUNG VON AMMONIAK-STICKSTOFF

Title (fr)  
PROCÉDÉ DE CONVERSION D'AZOTE AMMONIACAL TOTAL

Publication  
**EP 3887319 A1 20211006 (EN)**

Application  
**EP 19817602 A 20191128**

Priority  
• EP 18209626 A 20181130  
• EP 2019082953 W 20191128

Abstract (en)  
[origin: WO2020109494A1] The invention is directed to a process to oxidise total ammonia nitrogen, also referred to as TAN, as dissolved in an aqueous solution (1) by (i) contacting the aqueous solution with oxidised ammonia- oxidizing bacteria (AOB) under anaerobic conditions wherein TAN is converted and reduced ammonia-oxidizing bacteria is obtained and (ii) wherein in a separate step the reduced ammonia-oxidizing bacteria are oxidised in a separate step by transfer of electrons to an anode (4) of an electrochemical cell (3) to obtain the oxidised ammonia-oxidizing bacteria.

IPC 8 full level  
**C02F 3/00** (2006.01); **C02F 3/28** (2006.01); **C02F 3/30** (2006.01); **C02F 3/34** (2006.01); **H01M 8/16** (2006.01); **C02F 101/16** (2006.01); **C02F 103/18** (2006.01); **C02F 103/20** (2006.01)

CPC (source: EP)  
**C02F 3/005** (2013.01); **C02F 3/286** (2013.01); **H01M 8/16** (2013.01); **C02F 3/303** (2013.01); **C02F 3/307** (2013.01); **C02F 3/34** (2013.01); **C02F 2101/16** (2013.01); **C02F 2103/18** (2013.01); **C02F 2103/20** (2013.01); **Y02E 60/50** (2013.01)

Citation (search report)  
See references of WO 2020109494A1

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

DOCDB simple family (publication)  
**WO 2020109494 A1 20200604**; CN 113365952 A 20210907; EP 3887319 A1 20211006

DOCDB simple family (application)  
**EP 2019082953 W 20191128**; CN 201980090541 A 20191128; EP 19817602 A 20191128