

Title (en)
THERMAL MANAGEMENT METHOD FOR AN AMMONIA STORAGE SYSTEM

Title (de)
WÄRMEVERWALTUNGSVERFAHREN FÜR EIN AMMONIAKSPEICHERSYSTEM

Title (fr)
PROCÉDÉ DE GESTION THERMIQUE D'UN SYSTÈME DE STOCKAGE D'AMMONIAC

Publication
EP 4264025 A1 20231025 (FR)

Application
EP 21843652 A 20211220

Priority
• FR 2013776 A 20201221
• EP 2021086811 W 20211220

Abstract (en)
[origin: WO2022136281A1] This ammonia storage system for a vehicle (2) is characterised in that it comprises: - at least one starter cartridge (8) for storing ammonia in absorbed form in a starter salt; - at least one main cartridge (10) for storing ammonia in absorbed form in a main salt, the starter salt having an ammonia desorption temperature greater than an ammonia desorption temperature of the main salt; - a heater (34) for heating the starter cartridge; - an ammonia consumption member (6); - at least one heat exchange fluid circulation line (22), which is arranged to allow a heat exchange between, on the one hand, the heat exchange fluid and, on the other hand, the starter cartridge (8), the main cartridges (10) and the member (6); and - an ammonia circulation pipe (12), which connects the starter cartridge (8), the main cartridges (10) and the member (6).

IPC 8 full level
F01N 3/20 (2006.01); **C01C 1/00** (2006.01); **H01M 8/04082** (2016.01)

CPC (source: EP KR)
C01B 3/047 (2013.01 - EP KR); **C01C 1/006** (2013.01 - EP KR); **F01N 3/20** (2013.01 - EP); **F01N 3/208** (2013.01 - EP KR); **H01M 8/04216** (2013.01 - EP KR); **H01M 8/065** (2013.01 - EP KR); **H01M 8/222** (2013.01 - EP KR); **F01N 2240/16** (2013.01 - EP KR); **F01N 2570/18** (2013.01 - EP KR); **F01N 2610/02** (2013.01 - EP KR); **F01N 2610/06** (2013.01 - EP KR); **F01N 2610/10** (2013.01 - EP KR); **H01M 2250/20** (2013.01 - EP KR); **Y02A 50/20** (2017.12 - EP KR); **Y02E 60/36** (2013.01 - EP KR); **Y02E 60/50** (2013.01 - EP KR); **Y02T 10/12** (2013.01 - EP KR); **Y02T 90/40** (2013.01 - EP KR)

Citation (search report)
See references of WO 2022136281A1

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