

Title (en)
ENERGY DISTRIBUTION SYSTEM

Title (de)
ENERGIEVERTEILUNGSSYSTEM

Title (fr)
SYSTÈME DE DISTRIBUTION D'ÉNERGIE

Publication
EP 3933177 A1 20220105 (EN)

Application
EP 20183438 A 20200701

Priority
EP 20183438 A 20200701

Abstract (en)
An energy distribution system that comprises an energy storage device (20) configured to store thermal energy is provided. The system includes a charging flow path (30) configured to guide a heat transfer medium from a heat source (31) to the energy storage device (20) in order to transfer thermal energy from the heat source (31) to the energy storage device (20) to increase the amount of thermal energy stored in the energy storage device (20), and a discharging flow path (40) configured to guide the heat transfer medium from the energy storage device (20) to heat consumers (51, 52) in order to transfer thermal energy from the energy storage device (20) to the heat consumers (51, 52). The discharging flow path (40) comprises at least one distribution flow path (41) that includes at least a common flow line (45), a first outlet port (71) on the common flow line, the first outlet port (71) being configured to provide the heat transfer medium to a first heat consumer (51), and a second outlet port (72) on the common flow line, the second outlet port (72) being configured to provide the heat transfer medium to a second heat consumer (52).

IPC 8 full level
F01K 3/18 (2006.01)

CPC (source: EP)
F01K 3/18 (2013.01)

Citation (applicant)
EP 3102796 A1 20161214 - SIEMENS AG [DE]

Citation (search report)
• [XAY] US 4094148 A 19780613 - NELSON HAZEN E
• [XI] US 4438630 A 19840327 - ROWE GEORGE H [US]
• [XI] WO 2015149124 A1 20151008 - GRAPHITE ENERGY N V [NL]
• [Y] GB 2537126 A 20161012 - ISENTROPIC LTD [GB]
• [A] WO 0179761 A1 20011025 - COLLET PETER J [NL]

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)
EP 3933177 A1 20220105; EP 4146917 A1 20230315; WO 2022002690 A1 20220106

DOCDB simple family (application)
EP 20183438 A 20200701; EP 2021066950 W 20210622; EP 21739575 A 20210622