

Title (en)
METHOD FOR DETERMINING A LINE LENGTH

Title (de)
VERFAHREN ZUR ERMITTLUNG EINER LEITUNGSLÄNGE

Title (fr)
PROCÉDÉ DE DÉTERMINATION DE LONGUEUR DE CONDUITE

Publication
EP 4226070 A1 20230816 (DE)

Application
EP 21786872 A 20211004

Priority
• DE 102020212849 A 20201012
• EP 2021077213 W 20211004

Abstract (en)
[origin: WO2022078786A1] The invention relates to a method for determining the length of a heated pressure line for a conveying device for an aqueous urea solution in a motor vehicle from a tank to an injector, wherein the pressure line is electrically heatable and is heated, utilizing ohmic resistance, by the application of a voltage to an electrical conductor led on the pressure line, and wherein the length of the pressure line is calculated by means of the following formula: formula (I), in which A refers to the cross-sectional area of the electrical conductor, ρ refers to the electrical resistivity of the electrical conductor and $R_{Heizleitung}$ refers to the electrical resistance of the electrical conductor used to heat the pressure line.

IPC 8 full level
F16L 53/38 (2018.01); **G01R 21/02** (2006.01); **G01R 27/14** (2006.01); **H05B 3/58** (2006.01)

CPC (source: EP US)
F16L 53/38 (2017.12 - EP US); **G01B 7/026** (2013.01 - US); **H05B 1/0236** (2013.01 - EP US); **H05B 3/58** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP); **Y02T 10/12** (2013.01 - EP)

Citation (search report)
See references of WO 2022078786A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020212849 A1 20220414; CN 116368387 A 20230630; EP 4226070 A1 20230816; US 2023375324 A1 20231123; WO 2022078786 A1 20220421

DOCDB simple family (application)
DE 102020212849 A 20201012; CN 202180069659 A 20211004; EP 2021077213 W 20211004; EP 21786872 A 20211004; US 202118031197 A 20211004