

## (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2024/0179870 A1

May 30, 2024 (43) **Pub. Date:** 

## (54) FLUID GUIDING DEVICE FOR GUIDING A FLUID IN A CHARGING STATION AND CHARGING STATION COMPRISING SUCH A FLUID GUIDING DEVICE

(71) Applicant: ads-tec Energy GmbH, Nürtingen

(72) Inventors: Andreas GREIF, Weilheim (DE); Roman MOLCHANOV. Neckartenzlingen (DE); Simon BAREIß, Rudersberg (DE)

(21) Appl. No.: 18/511,212

(22)Filed: Nov. 16, 2023

#### (30)Foreign Application Priority Data

Nov. 24, 2022 (DE) ...... 102022131170.8

### **Publication Classification**

(51) Int. Cl. H05K 7/20 (2006.01)B60L 53/302 (2006.01)H02J 7/00 (2006.01)

## (52) U.S. Cl. CPC ...... H05K 7/20272 (2013.01); B60L 53/302 (2019.02); H02J 7/0042 (2013.01); H05K 7/20927 (2013.01)

#### (57)ABSTRACT

The invention relates to a fluid guiding device for guiding a fluid in a charging station, whereby

the fluid guiding device has a longitudinal channel, which extends in a longitudinal direction, whereby

- at least two first fluid connections, which lead away transversely to the longitudinal direction, are arranged on the longitudinal channel along the longitudinal direction, whereby
- at least one second fluid connection is arranged on a first end of the longitudinal channel, whereby
- the longitudinal channel is closed on a front side on a second end located opposite the first end, whereby
- the longitudinal channel connects the at least two first fluid connections fluidically in parallel to the at least one second fluid connection, as well as

a charging station comprising at least two such fluid guiding devices.

