



US 20220369436A1

(19) **United States**(12) **Patent Application Publication**
van Voorst Vader(10) **Pub. No.: US 2022/0369436 A1**(43) **Pub. Date: Nov. 17, 2022**(54) **METHOD OF DRIVING AN EMITTER
ARRAY****Publication Classification**(71) Applicant: **Lumileds LLC**, San Jose, CA (US)(72) Inventor: **Pieter Johannes Quintus van Voorst
Vader**, Son (NL)(21) Appl. No.: **17/873,456**(22) Filed: **Jul. 26, 2022****Related U.S. Application Data**(63) Continuation of application No. 16/657,475, filed on
Oct. 18, 2019, now Pat. No. 11,438,977.(30) **Foreign Application Priority Data**

Oct. 19, 2018 (EP) 18201408.4

(51) **Int. Cl.****H05B 45/10** (2006.01)**F21S 41/153** (2006.01)**B60Q 1/02** (2006.01)**G03B 15/05** (2006.01)(52) **U.S. Cl.**CPC **H05B 45/10** (2020.01); **F21S 41/153**
(2018.01); **B60Q 1/02** (2013.01); **G03B 15/05**
(2013.01); **F21Y 2105/16** (2016.08)

(57)

ABSTRACT

Methods and apparatus for driving an emitter array are described. A method includes determining a thermal environment profile for a plurality of emitters of the emitter array, computing a current pulse profile for at least one of the plurality of emitters based on the thermal environment profile, and applying a current pulse with the computed current pulse profile to the at least one of plurality of emitters.

