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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2022/0377862 A1**  
(43) **Pub. Date: Nov. 24, 2022**(54) **LIGHTING UNIT, IN PARTICULAR  
HEADLIGHT, COMPRISING A  
LIGHT-EMITTING DIODE MATRIX AND A  
CONTROLLED POWER SOURCE**(30) **Foreign Application Priority Data**

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CPC ..... **H05B 45/44** (2020.01)(57) **ABSTRACT**

A lighting unit having a light-emitting diode matrix and a controllable power source, in particular for a headlight. The light-emitting diode matrix is equipped with at least one first supply connection, a number m of first switches which have a first connection that is connected to the first supply connection, at least one second supply connection, a number n of second switches which have a second connection that is connected to the second supply connection, a number of m\*n inorganic light-emitting diodes, a first connection of which is connected to a second connection of one of the first switches and a second connection of which is connected to a first connection of one of the second switches.

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Lippstadt (DE)(21) Appl. No.: **17/875,516**(22) Filed: **Jul. 28, 2022****Related U.S. Application Data**(63) Continuation of application No. PCT/EP2021/  
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