

Title (en)  
LIDAR RECEIVING UNIT

Title (de)  
LIDAR-EMPFANGSEINHEIT

Title (fr)  
UNITÉ DE RÉCEPTION LIDAR

Publication  
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Application  
**EP 20734163 A 20200619**

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Abstract (en)  
[origin: CA3140197A1] The invention relates to a LIDAR receiving unit (16) in a focal plane array assembly, comprising a plurality of sensor elements (24) for receiving light pulses of a LIDAR transmitting unit (14), and multiple routing channels (32) for transporting signals from the sensor elements to an edge region (R) of the LIDAR receiving unit, wherein respective multiple sensor elements are arranged in a macrocell (26, 26'), which is assigned to a transmission element (22) of the LIDAR transmitting unit, respective multiple macrocells form a macrocell cluster (32) and respective multiple macrocell clusters are arranged in multiple rows (Z1, Z2, Z3), and the routing channels cross the multiple rows between respective neighbouring macrocell clusters of a row and are designed for transporting the signals in an orthogonal direction relative to the rows. The invention also relates to a LIDAR measuring device (10) for detecting an object (12) in an environment of a vehicle (14).

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