

Title (en)

A SMART GUIDE DEVICE FOR VISUALLY IMPAIRED PERSON

Title (de)

INTELLIGENTE FÜHRUNGSVORRICHTUNG FÜR SEHBEHINDERTE PERSON

Title (fr)

DISPOSITIF DE GUIDAGE INTELLIGENT POUR PERSONNE MALVOYANTE

Publication

EP 3378461 B1 20191023 (EN)

Application

EP 17162303 A 20170322

Priority

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Abstract (en)

[origin: EP3378461A1] The present invention refers to a smart guide device for visually impaired person, wherein the device includes a laser source (101), an ultrasonic sensor (104) provided near the laser source (101), an output mechanism (108) for providing alert to the visually impaired person about any obstacle (109), a gyroscope (102) attached to the laser source (101), a camera (103) for capturing an image (207) of a refracted laser beam (206) from the obstacle (109), an image processing unit (105) for processing the image captured by the camera (103), an embedded system (106) configured to calculate a height of the obstacle (109) based on the image (207) of the refracted laser beam, the height (205) of the laser source (101) and the angle (201) between a laser beam path (204) and the ultrasonic sensor (104).

IPC 8 full level

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A61H 3/061 (2013.01); **A61H 3/068** (2013.01)

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