

Title (en)

A SUN FOLLOWING SENSOR UNIT AND A SUN FOLLOWING APPARATUS HAVING THE SAME THEREWITH

Title (de)

SONNENNACHFÜHRUNGSSENSOREINHEIT UND SONNENNACHFÜHRUNGSVORRICHTUNG DAMIT

Title (fr)

UNITÉ DE DÉTECTION SUIVANT LE SOLEIL ET APPAREIL SUIVANT LE SOLEIL DOTÉE DE L'UNITÉ

Publication

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Application

EP 07833662 A 20071029

Priority

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Abstract (en)

[origin: WO2009031726A1] The present invention relates to a sun tracking sensor unit and a sun tracking apparatus having the same. There is provided a sun tracking apparatus, which comprises a sun tracking sensor unit 10 comprising an upright barrier 12 for partitioning a sensor case into four specific areas of east, west, south and north, CDS elements CDS(E), CDS(W), CDS(S), and CDS(N) respectively disposed in the four areas partitioned by the upright barrier 12, and the sensor case 11 functioning as a body for supporting the upright barrier and the CDS elements; a solar panel combination 20 including a solar panel 22 having a plurality of solar cells attached thereon and a solar support body 24 coupled to a rear thereof; a housing 30 functioning as a body for supporting the sun tracking sensor unit 10 and the solar panel combination 20; and an east-west driving motor 40 and a south-north driving motor 50, coupled to the housing to adjust an angle of the solar panel by rotating the solar support body respectively in east- west and south-north directions. Accordingly, its tracking accuracy is high due to the lower limit of trackable illumination intensity, and its whole structure is simple, thereby having a low manufacturing and maintenance cost.

IPC 8 full level

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CPC (source: EP KR US)

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