

Title (en)

Awning with sensor assembly for measuring wind and water loads

Title (de)

Markise mit Sensoranordnung zur Erfassung von Wind- und Wasserlasten

Title (fr)

Marquise dotée d'un agencement de capteur destiné à la détermination de charges éoliennes et hydrauliques

Publication

EP 2096226 A3 20111130 (DE)

Application

EP 08022460 A 20081224

Priority

DE 102008011294 A 20080227

Abstract (en)

[origin: CN101519900A] The invention relates to an awning, especially a hinge arm awning, comprising a bracket, a base bearing axis fixed on the bracket, a cloth shaft for winding and unwinding the awning cloth, and a torque-sensing arrangement for collecting wind and/or water loads on the awning cloth; wherein the cloth shaft can rotate relatively to the base bearing axis and be driven by a motor arranged on the base bearing axis which is pivotably arranged in the bracket. The torque-sensing arrangement comprises a sensor lever that is arranged at an end in a torque proof manner relative to the bearing axis, its bearing axis which is pivotably arranged in the bracket. The torque-sensing arrangement comprises a sensor lever that is arranged at an end in a torque proof manner relative to the bearing axis, its sensor arm stop on the bracket stopping the rotation; and a strain sensing arrangement between the bearing parts on the sensor arm, on the sensor rod and on the base bearing axis and the rotation locking structure of the sensor arm. The strain sensing arrangement can collect the deformation of the sensor arm due to the load limited torque at the bearing axis. structure of the sensor arm. The strain sensing arrangement can collect the deformation of the sensor arm due to the load limited torque at the bearing axis.

IPC 8 full level

E04F 10/06 (2006.01)

CPC (source: EP)

E04F 10/0659 (2013.01); **E04F 10/0648** (2013.01); **E06B 2009/6863** (2013.01)

Citation (search report)

- [AD] DE 20207538 U1 20020808 - WAREMA RENKHOFF GMBH & CO KG [DE]
- [AD] DE 9306368 U1 19930708

Cited by

US11644372B2

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Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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