

Title (en)
STEREO CAMERA EQUIPMENT, METHOD FOR CONTINUOUSLY AND AUTOMATICALLY CALIBRATING A STEREO CAMERA APPARATUS, COMPUTER PROGRAM, COMPUTER PROGRAM PRODUCT AND MONITORING DEVICE FOR WIND ENERGY SYSTEMS, BUILDINGS WITH TRANSPARENT AREAS, RUNWAYS AND/OR FLIGHT CORRIDORS OF AIRPORTS

Title (de)
STEREOKAMERA-EINRICHTUNGEN, VERFAHREN ZUR FORTLAUFENDEN AUTOMATISCHEN KALIBRIERUNG EINER STEREOKAMERA-EINRICHTUNG, COMPUTERPROGRAMM, COMPUTERPROGRAMMPRODUKT UND ÜBERWACHUNGSVORRICHTUNG FÜR WINDKRAFTANLAGEN, GEBÄUDE MIT TRANSPARENTEN BEREICHEN, START- UND LANDEBAHNEN UND/ODER FLUGKORRIDORE VON FLUGHÄFEN

Title (fr)
AGENCEMENTS DE CAMÉRAS STÉRÉOS, PROCÉDÉ D'ÉTALONNAGE AUTOMATIQUE CONTINU D'UN AMÉNAGEMENT DE CAMÉRAS STÉRÉOS, PROGRAMME D'ORDINATEUR, PRODIGE D'ORDINATEUR ET DISPOSITIF DE SURVEILLANCE POUR INSTALLATION AÉROGÉNÉRATRICES, BÂTIMENT AVEC PARTIES TRANSPARENTES, PISTES DE DÉCOLLAGE ET D'ATERRISSAGE ET/OU COULOIRS DE VOL D'AÉROPORTS

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Abstract (en)
[origin: WO2010058010A2] The invention relates to a stereo camera apparatus (1') comprising at least two adjusted thermal imaging cameras (3a, 3b) disposed at a defined distance to and aligned with one another, said apparatus provided with a calibration apparatus (19') for the continuous automatic calibration thereof, wherein the calibration apparatus (19') comprises a radiation source (21) and a reference beam path (20') for imaging a reference image of the radiation source (21) onto the respective thermal imaging camera (3a, 3b), wherein an outgoing collimated beam bundle (22) from the radiation source (21) is divided into at least two partial beam bundles (22a, 22b). Each of the at least two partial beam bundles (22a, 22b) are redirected to the camera through at least one optical redirecting element (23a, 23b) associated with the respective thermal imaging camera (3a, 3b), wherein at least one of the optical redirecting elements (23a, 23b) is adapted such that the redirection angle of the optical redirecting element (23a, 23b) is always constant within a tolerance range independent of the angular position of the optical redirecting element (23a, 23b) in the plane occupied by the primary beams of the reference beam path (20').

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