

Title (en)

EVALUATION OF THE RELIEF OF A TYRE SURFACE BY ACTIVE STEREOVISION

Title (de)

EVALUIERUNG DES RELIEFS EINER REIFENOVERFLÄCHE DURCH AKTIVE STEREOVISION

Title (fr)

EVALUATION DU RELIEF DE LA SURFACE D'UN PNEUMATIQUE PAR STEREOVISION ACTIVE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010052196A1] The invention relates to a device for acquiring the digital relief image of the surface of a tyre P, said device including: two colour cameras for acquiring stereoscopic images (13a, 13b), each including N primary image sensors (131a, 132a, 133a, 131b, 132b, 133b) for a given primary colour (R, G, B), N being greater than or equal to two, said cameras being arranged so as to acquire the light transmitted (E) towards a predetermined area (Z) of the tyre surface using lighting means (231, 232, 233), and reflected (F) by said tyre surface; N lighting means (231, 232, 233) simultaneously projecting, each independently and along the same direction onto said area (Z) of the tyre surface, light having a wavelength that corresponds to one of the primary colours (R, G, B) of the cameras according to a fringe system (S1, S2,... SN) alternating lit bands and unlit bands having a given width (L1, L2,... LN).

IPC 8 full level

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