

Title (en)
METHOD OF ENHANCED ALIGNMENT OF TWO MEANS OF PROJECTION

Title (de)
VERFAHREN ZUR VERBESSERTEN AUSRICHTUNG ZWEIER PROJEKTIONSMITTEL

Title (fr)
PROCÉDÉ D'ALIGNEMENT PERFECTIONNÉ DE DEUX MOYENS DE PROJECTION

Publication
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Application
EP 14711288 A 20140213

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Abstract (en)
[origin: WO2015121542A1] The invention relates to an alignment, on a first projector, of at least one second projector, with the steps: activating the first (P1) and second (P2) projectors so that each projects onto a screen an image pattern comprising a circle on a uniform contrasted background; performing a picture taking of the projections by a sensor (CAP), and transmitting the projected image data to an analysis device; at the analysis device (DIS), identifying centres of respective circles of the projections and transmitting commands for adjusting the second projector so as to make the centre of the circle of the image projected by the second projector coincide with the centre of the circle of the image projected by the first projector. In particular, the determination of respective positions of the centres of circles comprises for each circle: identifying at least one first and one second pair of projected-image zones, each zone of a pair including an arc of a circle, and the zones, pairwise, being spaced a maximum distance apart; determining, for each zone, a profile of spatial distribution of luminous intensity in a direction radial to the circle, so as to identify in said profile an extremum of luminous intensity, and to deduce therefrom spatial co-ordinates of a precise point corresponding to said intensity extremum; defining spatial co-ordinates of the medium between the two precise points of the first pair and of the medium between the two precise points of the second pair, so as to deduce therefrom spatial co-ordinates of the centre of the circle.

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