

Title (en)

OPTICAL BEAM-SPLITTER UNIT AND BINOCULAR DISPLAY DEVICE CONTAINING SUCH A UNIT

Title (de)

OPTISCHE STRAHLTEILER-EINHEIT UND IHRE VERWENDUNG IN EINER BINOKULAREN ANZEIGE

Title (fr)

UNITE DE SEPARATEUR DE FAISCEAU OPTIQUE ET DISPOSITIF D'AFFICHAGE BINOCULAIRE CONTENANT CETTE UNITE

Publication

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Application

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- HU P0003910 A 20001005

Abstract (en)

[origin: WO0159507A1] The invention relates to an optical beam-splitter unit which contains crossed transparent planoparallel plates (6, 7), starting at a common intersection line (4) with light reflecting surfaces that diverge towards the light beam to be split. The binocular picture display device that is also subject of the invention contains an optical beam-splitter unit and it has first focusing elements (24) and mirrors in front of the eyes (25). This device is characterised by that its beam-splitter unit is the above described one, the first focusing elements (24) are placed at two opposite sides as seen from the direction of the beam arriving to the semitransparent reflective surfaces of the optical beam-splitter unit (22) i.e. from the receiving direction (5) and the common optical axis (23) of the first focusing elements (24) is at right angles to the receiving direction; outside the first focusing elements (24) on both sides a mirror is placed in front of each eye, and the semitransparent reflective surfaces of these mirrors enclose an angle δ 45 DEG +/- 15 DEG with the above mentioned optical axis (23), and the intersection line of these reflective surfaces is parallel to the mirror crossing intersection line (4) of the semitransparent reflective surfaces.

IPC 1-7

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Cited by

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