

Title (en)

ACTIVE ELECTROOPTIC FILTERING DEVICE AND METHOD FOR OPERATING THE SAME

Title (de)

AKTIVE ELEKTROOPTISCHE FILTEREINRICHTUNG UND VERFAHREN ZU IHREM BETRIEB

Title (fr)

DISPOSITIF DE FILTRAGE ELECTRO-OPTIQUE ACTIF ET PROCEDE POUR FAIRE FONCTIONNER CE DERNIER

Publication

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Application

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Abstract (en)

[origin: WO0054097A2] The invention relates to an active optical filtering device which is particularly suitable for use as a glare protection device in welding protection masks, helmets or goggles. The device is equipped with a light protection filter with at least one active optical filtering element, an electronics unit for controlling the active filtering element, a light sensor which co-operates with the electronics unit and a power supply, especially a solar cell, for the electronics unit and the active filtering element; in a manner known per se. The control circuit for the active filtering element is configured in such a way that the load capacitor is entirely unloaded over a short space of time within a frame frequency (1/T) range of 0.01 to 1 Hz, which halves the power consumption in comparison with known circuits. At the same time, the operating voltage (U) is placed within a range which is determined quantitatively and in which the proportion of stray light of the liquid crystal display used is minimal as a result of this determination.

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IPC 8 full level

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CPC (source: EP KR)

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