

[54] ELECTRO-OPTIC WELDING LENS ASSEMBLY USING MULTIPLE LIQUID CRYSTAL LIGHT SHUTTERS AND POLARIZERS

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[56] References Cited

U.S. PATENT DOCUMENTS

3,873,804	3/1975	Gordon	350/160 LC X
3,881,808	5/1975	Gurtler et al.	350/160 LC
3,937,561	2/1976	Peterson et al.	350/160 LC X

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[57] ABSTRACT

A liquid crystal welding lens assembly for use as the eyepiece of a welding helmet in which the light transmission of the lens assembly is no greater than 0.01% during the existence of a welding arc. This is achieved with the use of at least two liquid crystal light shutters and three polarizers alternately arranged in tandem.

5 Claims, 4 Drawing Figures

