

Title (en)

POLYCARBONATE-CONTAINING LIQUID CHEMICAL FORMULATION AND METHOD FOR MAKING POLYCARBONATE FILM

Title (de)

POLYCARBONAT ENTHALTENDE FLÜSSIGE CHEMISCHE FORMULIERUNG UND VERFAHREN ZUR HERSTELLUNG EINER POLYCARBONATFOLIE

Title (fr)

FORMULATION CHIMIQUE LIQUIDE CONTENANT DU POLYCARBONATE ET PROCEDE DE FABRICATION DE FILM DE POLYCARBONATE

Publication

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Application

EP 98911394 A 19980227

Priority

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- US 80836397 A 19970228

Abstract (en)

[origin: WO9838239A1] A liquid chemical formulation suitable for making a thin solid polycarbonate film contains polycarbonate material and a liquid typically capable of dissolving the polycarbonate to a concentration of at least 1 %. The liquid also typically has a boiling point of at least 80 DEG C. Examples of the liquid include pyridine, a ring-substituted pyridine derivative, pyrrole, a ring-substituted pyrrole derivative, pyrrolidine, a pyrrolidine derivative, chlorobenzene, and cyclohexanone. A liquid film (36A) of the liquid chemical formulation is formed over a substructure (30) and processed to remove the liquid. In subsequent steps, the resultant solid polycarbonate film can serve as a track layer through which charged particles (70) are passed to form charged-particle tracks (72). Apertures (74) are created through the track layer by a process that entails etching along the tracks. The aperture-containing polycarbonate track layer is typically employed in fabricating a gated electron-emitting device.

IPC 1-7

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Citation (search report)

- [X] EP 0352765 A2 19900131 - DOW CHEMICAL CO [US]
- [XD] US 4791016 A 19881213 - SCHULTE BERNHARD [DE], et al
- [X] US 5041469 A 19910820 - HOSTETLER DONALD E [US], et al
- [X] EP 0500131 A2 19920826 - MITSUBISHI GAS CHEMICAL CO [JP]
- [A] US 3612871 A 19711012 - CRAWFORD WAYNE T, et al
- [A] FR 2705830 A1 19941202 - COMMISSARIAT ENERGIE ATOMIQUE [FR], et al
- See references of WO 9838239A1

Designated contracting state (EPC)

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