

Title (en)  
MANUFACTURING PROCESS FOR MULTICHANNEL PLATES, AND THEIR USE

Publication  
**EP 0154797 A3 19861230 (DE)**

Application  
**EP 85101038 A 19850201**

Priority  
DE 3408848 A 19840310

Abstract (en)  
[origin: US4563250A] A method for producing a multichannel plate containing a plurality of generally parallel channels for use in structures for amplifying or converting optical images or other two-dimensional signal patterns by secondary electron multiplication, which method includes: producing a positive mold of the plate, by the steps of: (i) providing a body having the external shape of the plate to be produced and made of a material whose ability to be removed from the body is altered by exposure to a selected radiation; (ii) irradiating the body with the selected radiation in a pattern corresponding to the plate to be produced and in a manner to render the portions of the body corresponding to the channels more easily removable than the remaining portions of the body; and (iii) removing the more easily removable portions of the body; forming a metal negative mold, by the steps of: (i) attaching the positive mold to a metal electrode; (ii) electrolytically depositing metal on the electrode and in the openings created in the positive mold by said step of removing more easily removable portions; and (iii) removing the positive mold from the deposited metal; and forming the multichannel plate from the negative mold.

IPC 1-7  
**H01J 9/12**; **H01J 43/24**

IPC 8 full level  
**H01J 9/12** (2006.01); **H01J 43/24** (2006.01)

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**H01J 9/125** (2013.01 - EP US); **H01J 43/246** (2013.01 - EP US); **H01J 2201/32** (2013.01 - EP US)

Citation (search report)  
• [A] US 4031423 A 19770621 - SIEGMUND WALTER P  
• [A] GB 2029088 A 19800312 - PHILIPS NV

Designated contracting state (EPC)  
AT CH FR GB IT LI NL SE

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