

Title (en)

SEALING METHOD AND APPARATUS FOR MANUFACTURING HIGH-PERFORMANCE GAS DISCHARGE PANEL

Title (de)

ABDICHTUNGSVERFAHREN UND GERÄT ZUR HERSTELLUNG HOCHLEISTUNGS-GASENTLADUNGSSANZEIGEVORRICHTUNGEN

Title (fr)

PROCEDE ET APPAREIL D'ETANCHEITE POUR LA PRODUCTION D'UN PANNEAU A PLASMA A HAUTE PERFORMANCE

Publication

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Application

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Priority

- JP 9904961 W 19990913
- JP 25988098 A 19980914
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- JP 6276599 A 19990310
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- JP 12210699 A 19990428

Abstract (en)

[origin: WO0016364A1] A method is provided to steadily produce a gas discharge panel, such as a PDP, in which a panel and the top of the barrier ribs are in intimate contact in entirety. First a surrounding unit for the gas discharge panel is formed, then a process for sealing the surrounding unit with a sealing material inserted between two panels at the rim is performed while pressure is adjusted so that pressure inside the surrounding unit is lower than pressure outside. With this construction, the panels constituting the surrounding unit are bonded together while they are pressurized from outside. As a result, a panel and the top of the barrier ribs on the other panel are bonded together while they are in intimate contact in entirety. To fully acquire these effects, it is preferable that the adjustment of pressure starts before the sealing material hardens. During, before, or after the sealing step, an energy such as laser beams or ultrasonic waves may be radiated onto the top of the barrier ribs to bond a panel and the top of the barrier ribs in entirety almost without a gap between them.

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