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Machine translation

1. [100874682*](#) METHOD FOR MANUFACTURING A FLAT PANEL DISPLAY DEVICE FOR REDUCING MANUFACTURING EQUIPMENT KR - 11.12.2008

Int.Class [G02F 1/13](#) Appl.No 1020070079962 Applicant SHINDO ENG. LAB., LTD. Inventor PARK, WOONG KI

PURPOSE: A method for manufacturing a flat panel display device is provided to maximize the space use efficiency by enabling going and returning work separately at each stage. CONSTITUTION: A second worktable(5) and a third worktable(7) are installed. A separate rapid feeding means(9) is prepared between a third worktable. A substrate loader(40) is installed at the out side of the vacuum suction member(36). A reciprocating cylinder is installed between a vacuum suction member and a center body(50). A film loader(60), a film cleaner(62), and a protective film(64) are installed in the outer side of the vacuum suction member as the working stage. A plurality of unit chambers(72) are set up the third worktable in the center body(70) rotated with the outer motor. ©KIPO 2009

2. [1020200048625](#) LIQUID CRYSTAL MATERIAL FOR SMALL LIQUID CRYSTAL APERTURE AND METHOD OF MANUFACTURING SAME KR - 08.05.2020

Int.Class [C09K 19/60](#) Appl.No 1020180130886 Applicant 주식회사 신도기연 Inventor PARK UNGGI

The purpose of the present invention is to provide a liquid crystal material capable of improving light transmittance of a liquid crystal aperture which can be miniaturized. Also, the present invention is designed to allow mass production of a liquid crystal aperture module manufacturing process of injecting a crystal liquid into an aperture module and sealing the same in order to manufacture the crystal liquid to an electronic aperture. To this end, the present invention provides a crystal liquid composition with light transmittance improved by mixing a polymer-based liquid crystal and a monomer-based liquid crystal in a predetermined ratio and heating the mixture. In addition, the present invention provides a manufacturing method of arranging a micro-spacer on a transparent substrate having a transparent electrode formed in a concentric ring shape, capable of forming a stepped diameter of an aperture shape, dispensing a liquid crystal composition with high light transmittance onto the transparent substrate by inserting the transparent substrate into a vacuum chamber, applying an end seal to an edge of the transparent substrate, and covering a cover transparent substrate to seal the transparent substrates, in order to manufacture an electronic aperture. COPYRIGHT KIPO 2020

3. [1020210025984](#) VACUUM GLASS PANEL AND MANUFACTURING METHOD THEREOF KR - 10.03.2021

Int.Class [E06B 3/66](#) Appl.No 1020190106125 Applicant 주식회사 신도기연 Inventor PARK UNGGI

The present invention provides a vacuum glass panel manufactured by an in-chamber method and a manufacturing method thereof. An objective of the present invention is to provide a vacuum glass panel which is inexpensive and has an excellent vacuum level. The vacuum glass panel comprises: (i) a first and a second glass plate which face each other and are separated from each other; (ii) a plurality of spacers which are separated from each other to be arranged between the glass plates, and come in contact with the pair of glass plates to support the pair of glass plates; and (iii) an edge sealing unit formed along the edge between the pair of glass plates. The outer surface of the vacuum glass panel corresponding to the plurality of spacers is formed to be substantially flat. The edge sealing unit includes (i) frit parts and (ii) one or more sealing parts formed between the frit parts. The width of the sealing part is smaller than the width of the frit parts. COPYRIGHT KIPO 2022

4. [1020110012657](#) BONDING METHOD OF A SURFACE TRANSPARENT MEMBER, AN LCD PANEL, CAPABLE OF MORE CONVENIENTLY AND EFFECTIVELY PERFORM ALIGNMENT WORK, AND A DEVICE THEREOF KR - 09.02.2011

Int.Class [G02F 1/13](#) Appl.No 1020090070473 Applicant SHINDO ENG. LAB., LTD. Inventor PARK, WOONG KI

PURPOSE: An LCD panel, a bonding method of a surface transparent member, and a device thereof are provided to perform bonding work of the LCD panel and the surface transparent member in upright state. CONSTITUTION: A second pressing implement(6) is installed inside a cover(2) as facing axis of a chamber(1). A chamber inner pressure adjusting implement(7) discharges the air of inner chamber to the external side. The chamber inner pressure adjusting implement forms inner chamber by vacuum state. The chamber inner pressure adjusting implement supplies the external air into the chamber in a vacuum state. The chamber inner adjusting implement controls the pressure inside the chamber by atmosphere pressure state. COPYRIGHT KIPO 2011

5. [100883314*](#) THOMSON PRESS CAPABLE OF EXERTING EQUIVALENT PRESSING FORCE, THROUGH PNEUMATIC PRESSURE, OVER THE ENTIRE PORTION SIMULTANEOUSLY KR - 05.02.2009

Int.Class [B30B 1/38](#) Appl.No 1020070091975 Applicant SHINDO ENG. LAB., LTD. Inventor PARK, WOONG KI

PURPOSE: A Thomson press is provided to improve endurance of a press mold by exerting equivalent pressing force on the press mold. CONSTITUTION: In a Thomson press, an upper and lower pressing assembly(3,5) faces each other horizontally and are stalled by a spacer fastening member(7) on a base(1), away from upward and downward. Space between the upper pressing assembly and the lower pressing assembly is utilized as a work space(9). The upper pressing assembly comprises an upper pneumatic supply and exhaust port(30), an inside upper fixing member(34), an upper pressurization member(36), an upper seal member(38), an upper guide member(40), and an upper return member(42). The lower pressing assembly consists of a lower fixing member(54), a lower pressing member(56), a lower seal member(58), a lower guide member(60), and a lower return member(62). ©KIPO 2009



