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(54) Title (EN): DISPLAY DEVICE AND EXTRUDED FRAME SECTION STRUCTURE THEREOF

(54) Title (FR): DISPOSITIF D'AFFICHAGE ET STRUCTURE DE SECTION DE CADRE EXTRUDÉ ASSOCIÉE

(54) Title (ZH): 一种显示设备及其边框型材结构

(57) Abstract:

(EN): Provided are a display device and an extruded frame section structure thereof. The extruded frame section structure comprises a main body framework (1) and a plastic member (2) covering around the main body framework (1). In the structure, the main body framework (1) can be made of a material selected from materials having appropriate strength, such as an aluminum alloy, and the plastic member (2) can cover around the main body framework (1) by means of coextrusion. The above arrangement realizes a stable structure which is less likely to deform. Moreover, compared with a conventional structure entirely made of an aluminum alloy, the above arrangement facilitates reducing costs and weight. A surface frame portion (21) of the plastic member (2) covers around a surface frame panel (11) of the main body framework (1). A supporting portion (22) of the plastic member (2) covers around a supporting panel (12) of the main body framework (1). A light filtering strip (3), the surface frame portion (21), and the supporting portion (22) are combined by means of coextrusion, thereby significantly reducing the difficulties of installing the light filtering strip (3) and required labor. Accordingly, a display device adopting the extruded frame section structure has a stable structure and lower costs, and requires less labor.

(FR): L'invention concerne un dispositif d'affichage et une structure de section de cadre extrudé associée. La structure de section de cadre extrudé comprend un cadre de corps principal (1) et un élément en plastique (2) recouvrant le cadre de corps principal (1). Dans la structure, le cadre de corps principal (1) peut être constitué d'un matériau choisi parmi des matériaux ayant une résistance appropriée, tel qu'un alliage d'aluminium, et l'élément en plastique (2) peut recouvrir le cadre de corps principal (1) par coextrusion. L'agencement ci-dessus permet de réaliser une structure stable qui est moins susceptible de se déformer. De plus, en comparaison à une structure classique entièrement constituée d'un alliage d'aluminium, l'agencement ci-dessus facilite la réduction des coûts et du poids. Une partie de cadre de surface (21) de l'élément en plastique (2) recouvre un panneau de cadre de surface (11) du cadre de corps principal (1). Une partie de support (22) de l'élément en plastique (2) recouvre un panneau de support (12)

du cadre de corps principal (1). Une bande de filtrage de lumière (3), la partie de cadre de surface (21) et la partie de support (22) sont combinées par coextrusion, ce qui réduit considérablement les difficultés d'installation de la bande de filtrage de lumière (3) ainsi que la main d'œuvre requise. Par conséquent, un dispositif d'affichage adoptant la structure de section de cadre extrudé présente une structure stable et des coûts inférieurs, et requiert moins de main-d'œuvre.

(ZH): 一种显示设备及其边框型材结构,该边框型材结构包括主体骨架(1)以及包覆在主体骨架(1)外的塑料体(2),由此,该结构的主体骨架(1)可选用如铝合金等合适强度的材料,而塑料体(2)则可以共挤的方式包覆在主体骨架(1)外,这一方面能够实现稳定的结构,不易变形,而另一方面比起传统的整体采用铝合金的方式,成本更低,并有利于降低重量;此外,塑料体(2)的面框部(21)包覆在主体骨架(1)的面框板(11)外,塑料体(2)的支撑部(22)包覆在主体骨架(1)的支撑板(12)外,且滤光条(3)与面框部(21)以及支撑部(22)以共挤的方式相结合,这大大降低了滤光条(3)的安装难度,节约了人力;显示设备由于包括边框型材结构,则其同样能够实现稳定的结构,且同样成本较低,有利于节约人力。

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