Abstract

Space Enclosure System

This invention relates to a system of panels able to divide, isolate or compartmentalise spaces via a flexible system based on but not restricted to glass and aluminium. The invention is directed to the technical area of construction, more precisely in the area of enclosures to divide spaces and to enclose spaces such as terraces, balconies, offices, restaurants etc.

This invention is an enclosure system in which the weight of the panels rests and moves on the PTFE strips and the HG components plus the use of solid components eliminates the need for bearings and gears and external mechanical aids.

The solution presented below is based on the panels that move individually being guided inside the rail by non-rotating guides, which in conjunction with fixed components in the upper rail eliminate any possibility of the panels being displaced, and operating incorrectly. In this way the new invention eliminates all of the failings of other mechanically dependent systems. This invention also allows for unlimited numbers of panels in any system plus the ability to negotiate angles. The combination of PTFE weight bearing strips and the HG components allows for heavier panels to be employed than other systems. The panels move along the rails with the help of guides and the weight of the whole structure rests and moves on the PTFE strips. For this reason, the only function of the upper rail is to guide the movement of each panel and to allow the rotation at the opening position and not to support the weight of the system. This combination allows for the panels to be positioned in a variety of intermediary positions, depending upon the requirement of the user.

Figures to be published – Figure 1 & Figure 2