

HINGING ARRANGEMENT

ABSTRACT

The said hinging arrangement comprises an elongate extruded U-shaped bracket 1 and a pair of elongate extruded engaging members 5: The U-shaped bracket 1 includes comprised of a base member 2, and a pair of arm members 3 extending from opposed ends of the base member 2 to define a receiving recess 4 between them. The receiving recess 4 defines a pair of curved passages 12, each for receiving a curved leg formation 7 and guiding movement of the leg formation 7 during pivoting movement of the hinging arrangement 100. The curved passages 12 further serve to prevent removal of the leg formations 7 from the receiving recess 4 when both leg formations 7 are at least partially received into the receiving recess 4. During pivotal movement of the engaging members 5 relative to each other, the distance (shown as arrow D in Figures 5 and 6) between the separate axes of rotation 23 of each engaging formation 5 about the bracket 1 remains constant. The leg formations 7 each have a circular curve with an outer radius 8 which is half the distance D or slightly less than half the distance D, so that the gap d (shown as arrow d in Figures 5 and 7) between the outer radii of the respective leg formations 7 is negligible, while allowing for free movement between the leg formations 7. As the engaging members 5 pivot relative to each other, the smallest distance or gap d between the outer radii 8 of the respective leg formations 7 remains substantially constant.

Figure 6