ABSTRACT

Multi-dimensional Structure

A multi-dimensional structure 100 is disclosed herein. In a first embodiment, the multi-dimensional structure is configurable as a Pentachoron structure 101 having a plurality of independent geometric structures 200,300,400. Each geometric structure is defined by a number of vertices $A_1,A_2,B_1,B_2,C_1,C_2,D_1,D_2,E_1,E_2$ cooperating with respective elongate members 202,302,402. The multi-dimensional structure 100 also comprises a plurality of structural vertices $A_1+A_2,B_1+B_2,C_1+C_2,D_1+D_2,E_1+E_2$, with each structural vertex comprising at least two vertices $A_1,A_2,B_1,B_2,C_1,C_2,D_1,D_2,E_1,E_2$ from respective geometric structures 200,300,400 movably connected together.

Figure 1

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