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A non-regular icosahedron geometry satellite form, mirror invested Polyhedroheliotrope, for optical tracking



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Working on relationships of three circles in common ratio [4/π or square root of the golden number] and drawing lines of related tangents, squares and triangles, viewed on the paper plan, a figure having the shape of a section [Hexagonal] like that of an Icosahedron or Dodecahedron. This gave me the idea of searching for an existing probable Polyhedron built upon this traced shape. In fact this Polyhedron was built [4x scale], whose geometry relates to the Icosahedron and the Dodecahedron. It is a non-regular Icosahedron having 12 Isosceles triangles and 8 Equilateral triangles. Mirror triangles cut to size, invested the structure for the configuration of a "Polyhedroheliotrope" Satellite Optical Tracking application.

This work is part [mainly geometric configurations' presentation] of my published book: Treatise on Circle Generator Polyhedron Harmony and Disharmony Condition of Three Concentric Circles in Common Ratio, ISBN 978 - 618 - 83169 - 0 - 4, National Library of Greece 04/05/2017 by Panagiotis Ch. Stefanides. "Generator" refers to the geometric characteristics of this Solid found to be roots of the other Solid Polyhedral i.e. Platonic/ Euclidean Solids [Icosahedron, Dodecahedron etc].

Biography

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