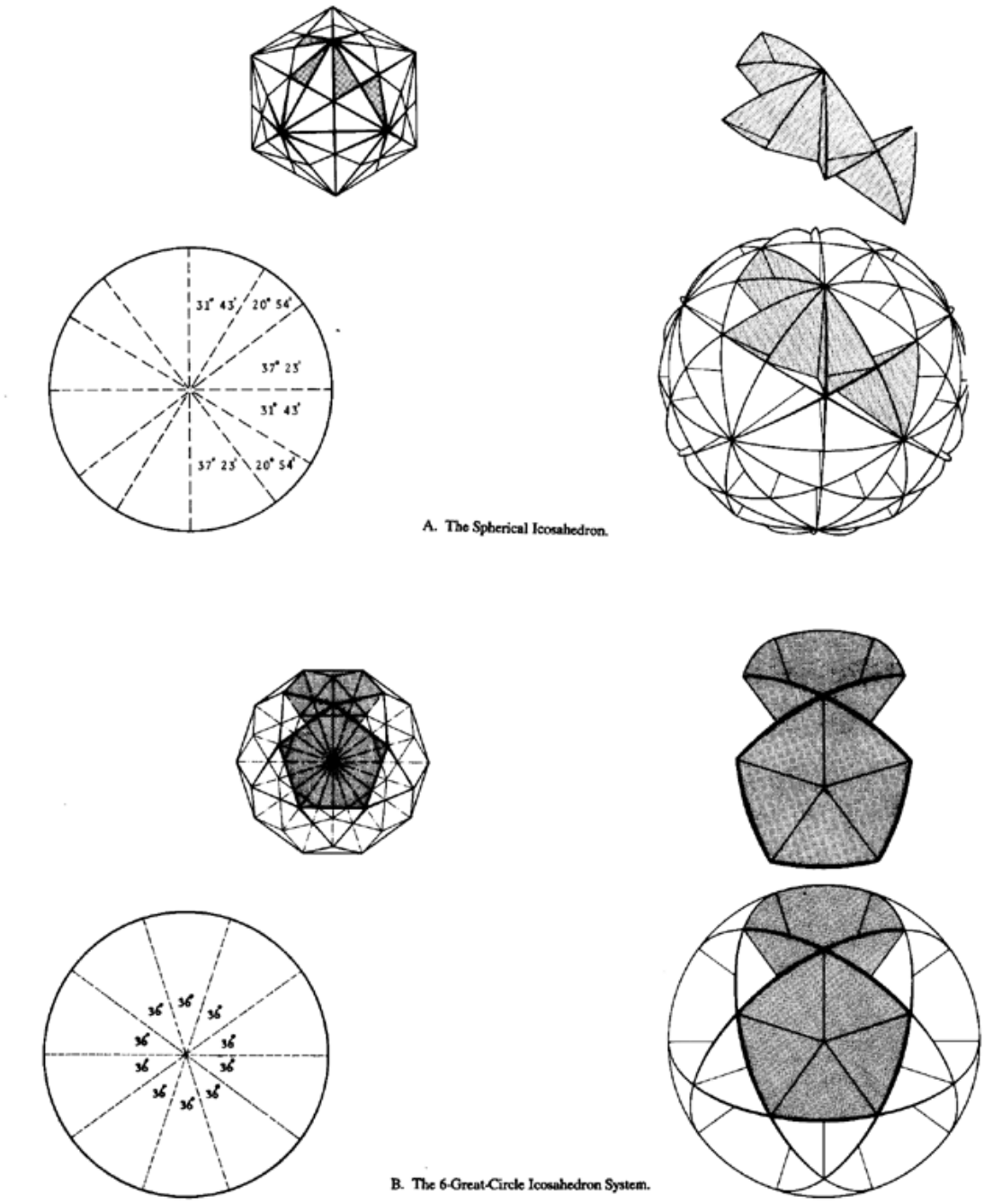

Fig. 458.12 Folding of Great Circles into the Icosahedron System:

A. The 15 great circles of the icosahedron folded into "multi-bow-ties" consisting of four tetrahedrons each. Four times 15 equals 60, which is 1/2 the number of triangles on the sphere. Sixty additional triangles inadvertently appear, revealing the 120 identical (although right- and left- handed) spherical triangles, which are the maximum number of like units that may be used to subdivide the sphere.
B. The six great-circle icosahedron system created from six pentagonal "bow-ties."