

Origami Jig for Pleiades

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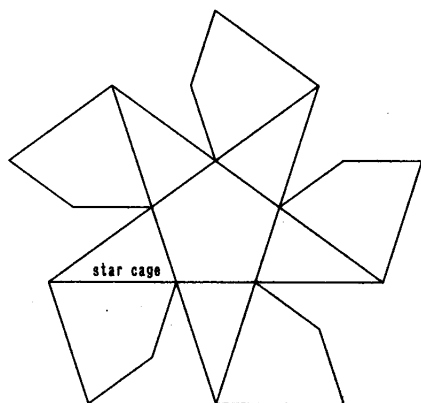


Fig. 1: *Development of Type A*

In 1995 I published a paper describing the Pleiades, a chain of six pentagrams.

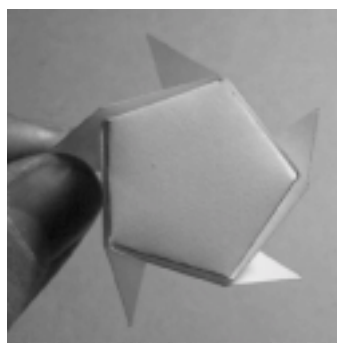
In 1999, I developed and mass-produced the concept as a science toy called Star Cage #5. Some people can already assemble Pleiades themselves. I can assemble it within five minutes. But most people find it difficult to assemble. So I invented an Origami jig for assembling the Pleiades in 2000. At last, everybody can assemble it themselves.

The jig consists of twelve pieces whose development is shown in Fig.1. You must fold every ridge as a mountain, and then make a windmill as shown in Fig.2-(1).

After you prepare twelve windmills, join each piece together as shown in Fig. 2-(2), (3). You don't need any glue.

Finally, you complete the icosi-dodecahedron which has channels.

Next, insert a piece of Pleiades into each channel as shown in Fig. 3. The channels now serve as guides which allow you to easily complete the Pleiades. Please pay special attention to the chirality of the pentagram. (Fig. 4).



(1)



(2)



(3)



(4)



(5)



(6)

Fig. 2 *How to assemble the jig.*

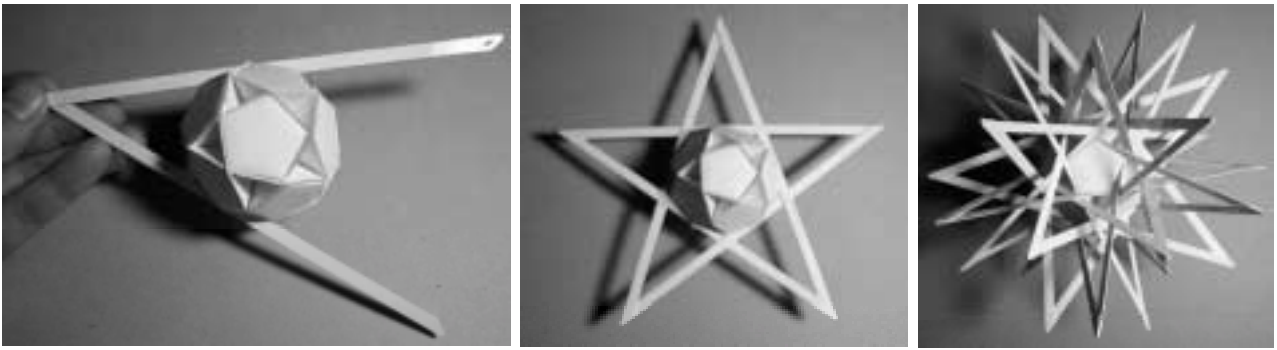


Fig. 3: *Assembling the Pleiades*

I have found other Origami kits which make icosi-dodecahedron as byproducts. They cannot act as suitable jigs for Pleiades. Yet they are interesting as self-standing, glueless, origami polyhedron.

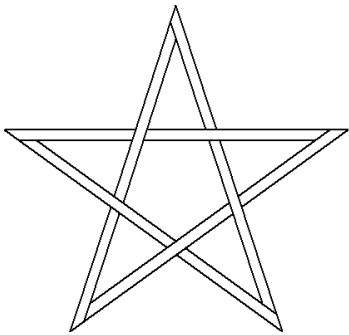


Fig. 4: *Chirality of Pentagram*

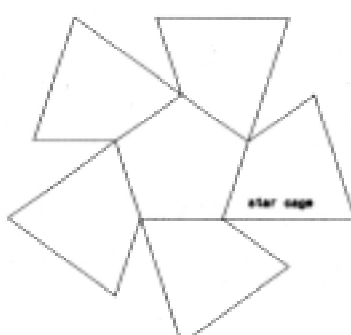


Fig. 5: *Development of Type B*



Fig. 6: *Development of Type C*

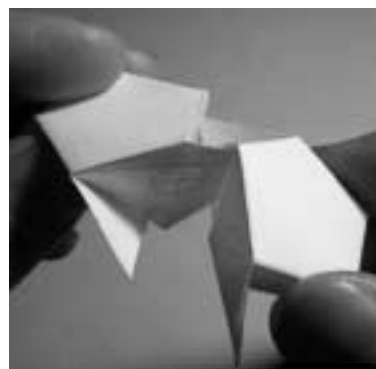
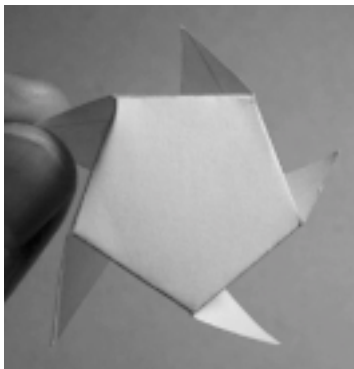


Fig. 7: *Type B*

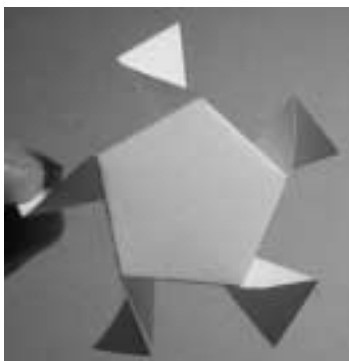


Fig. 8: *Type C*

Acknowledgement

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