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11. The EAP structure of claim 10, wherein said EAP structure comprises a plurality of EAP strands having a length (L) in accordance with the following equation:

$$L=(0.5C)/\cosine(A)$$

where

L=length of EAP strand

C=circumference of biaxial braided structure

A=braid angle.

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12. The EAP structure of claim 10, wherein said EAP structure further comprises a rigid structure operatively coupled to said plurality of EAP strands having said biaxial braided configuration by an inner frame connector.

5 13. The EAP structure of claim 10, wherein EAP structure further comprises an outer frame operatively coupled to a distal end of said plurality of EAP strands having said biaxial braided configuration.

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