

Pediatric Prosthetics

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Objective

Adjustable Child Prosthesis

Photos of an adjustable child prosthetic leg and a photo of a child with a prosthetic leg needing refitting have been removed due to copyright restrictions.

Requirements

- Easy to Use
- Adjustable
- Durable
- ~ 3 Years
- Compatible



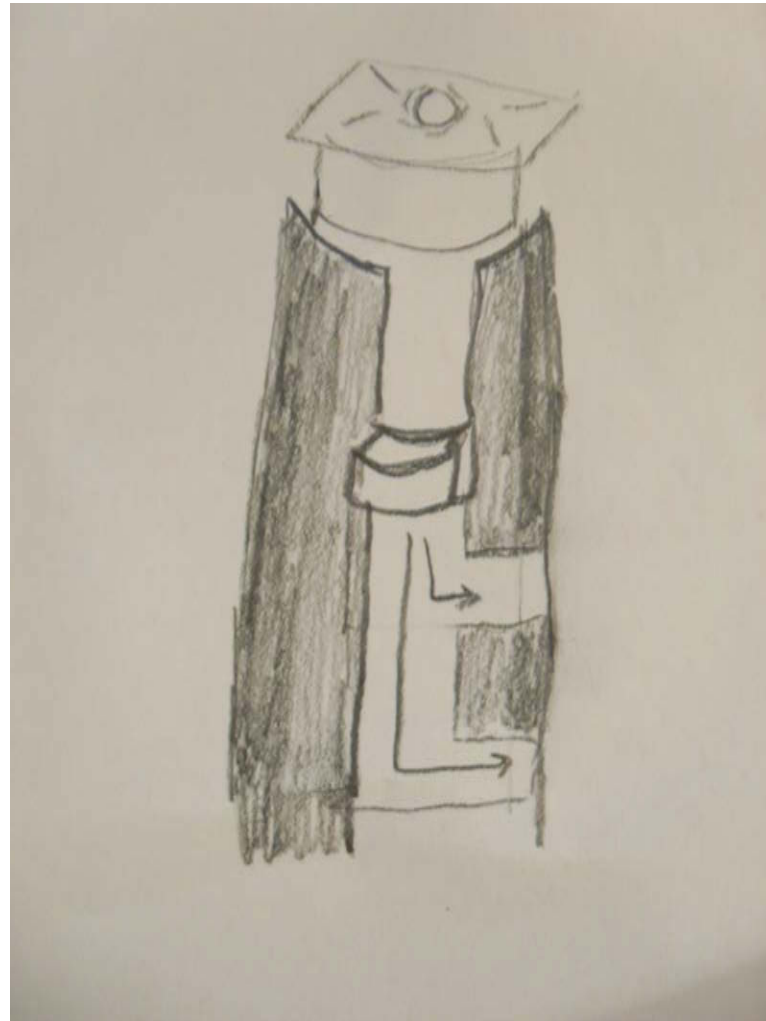
Restrictions

- Weight
- Aesthetic Cover
- Materials
- Cost

Photo of various metal materials removed
due to copyright restrictions.

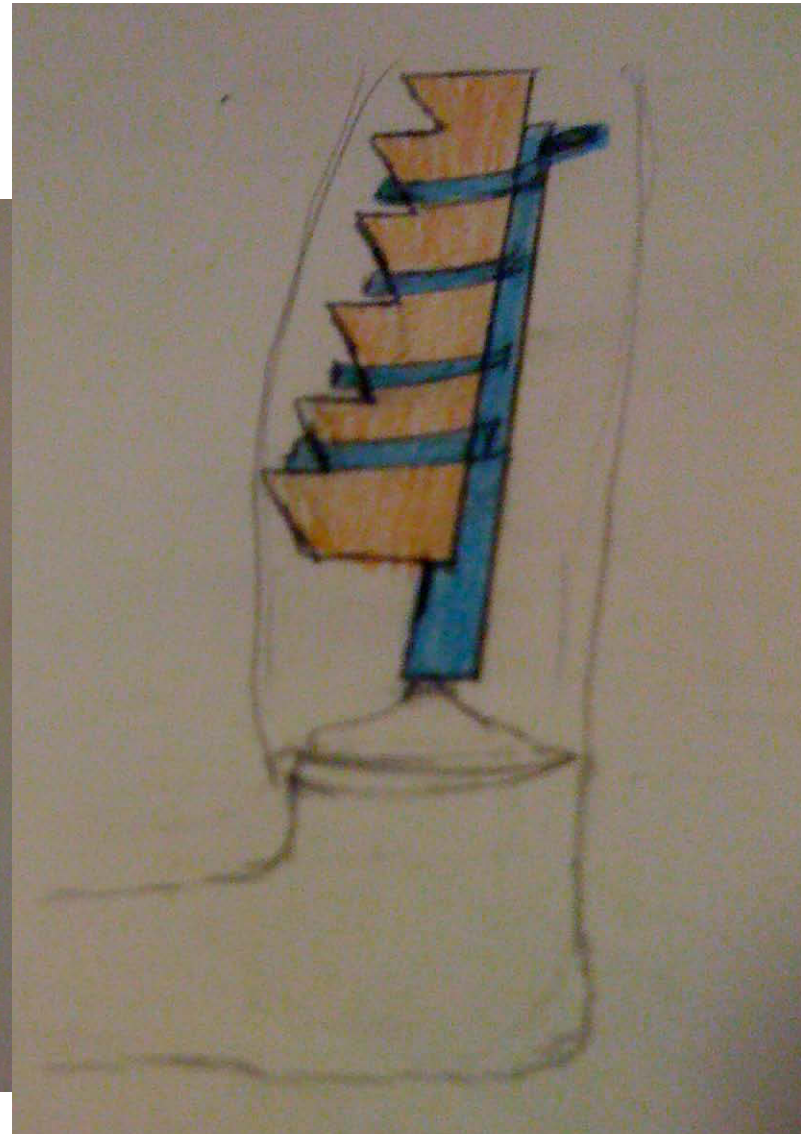
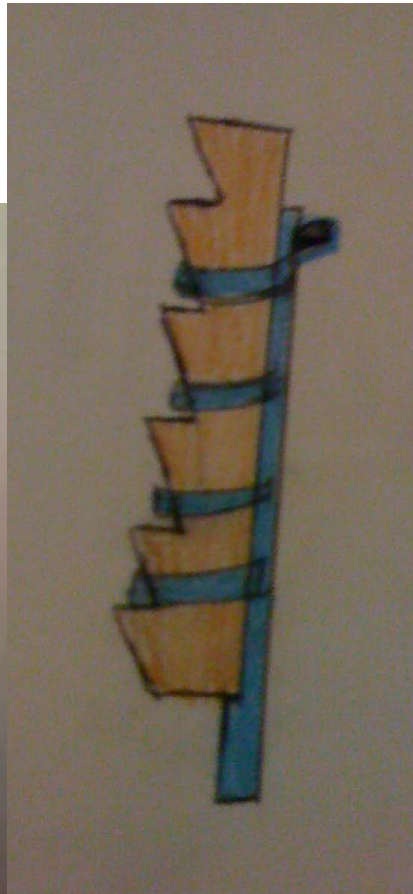
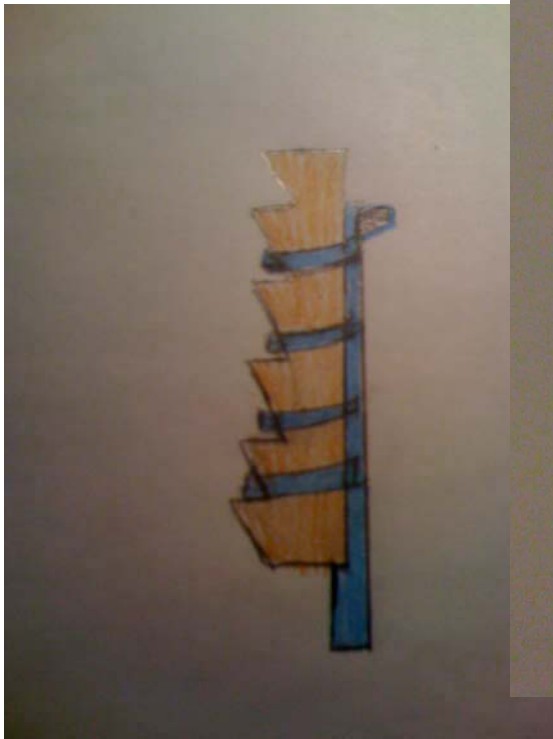
Mechanisms

1) Rotation Lock



Mechanisms

2) Binder - Clamping



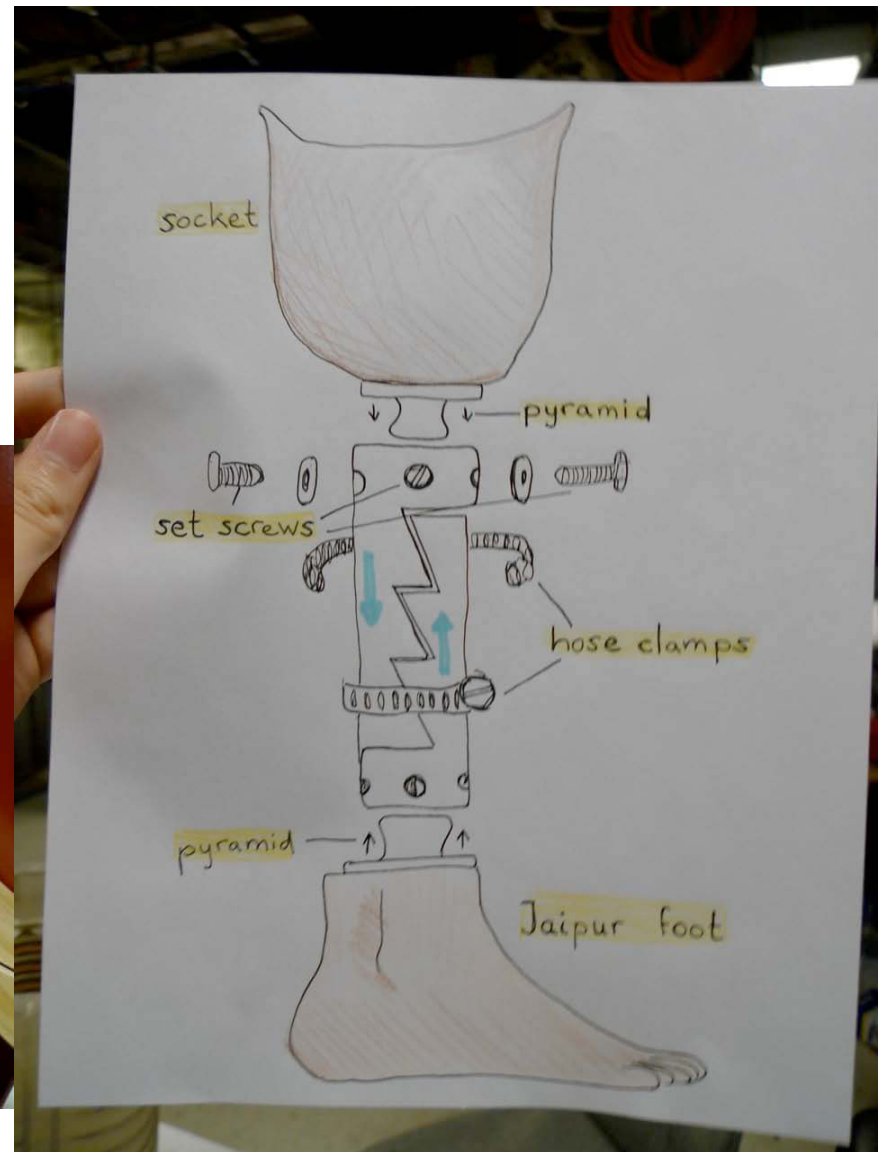
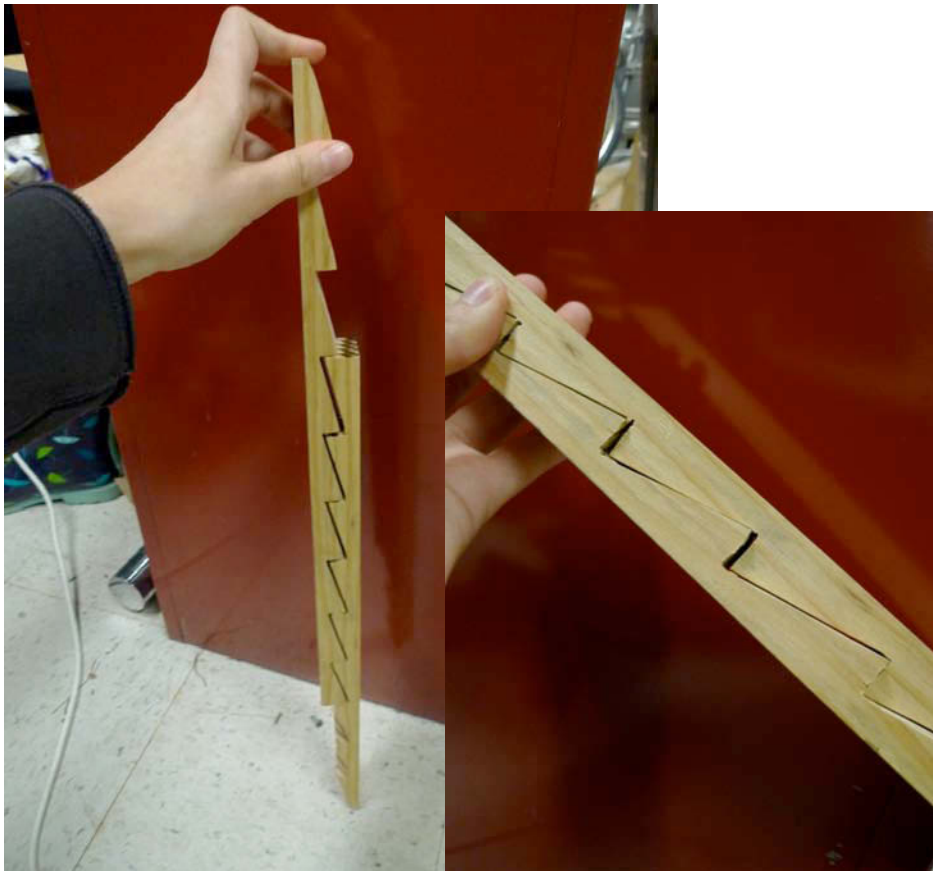
Mechanisms

3) Crutch Leg



Mechanisms

4) Saw-tooth Mechanism



Pyramids & Legos

- Cost
- Weight
- Availability
- Material



Photo of lego pirate with peg leg removed due to copyright restrictions.

MIT OpenCourseWare
<http://ocw.mit.edu>

EC.722 Special Topics at Edgerton Center:Developing World Prosthetics
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