

2.009 Mock-Up Presentation

Green Team B

21 Oct 2004 Rm 3-270

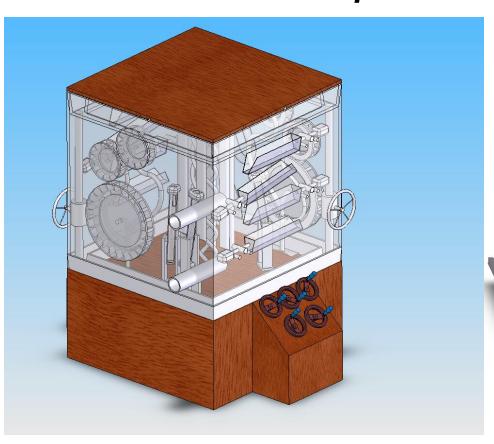
Concept

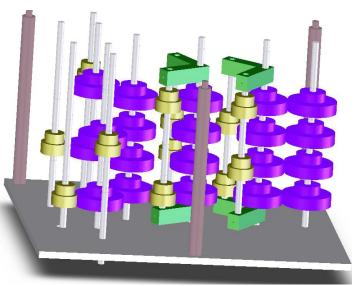
Interactive Fountain

- Manual Pump
- Many possible flow paths
- User input controls water flow
- Water does work on mechanical modules

Concept

Public Space Diversion





Concept

Child Development

- 3 Interactive Modules
 - Optical
 - Audio
 - Ludicrous Motion

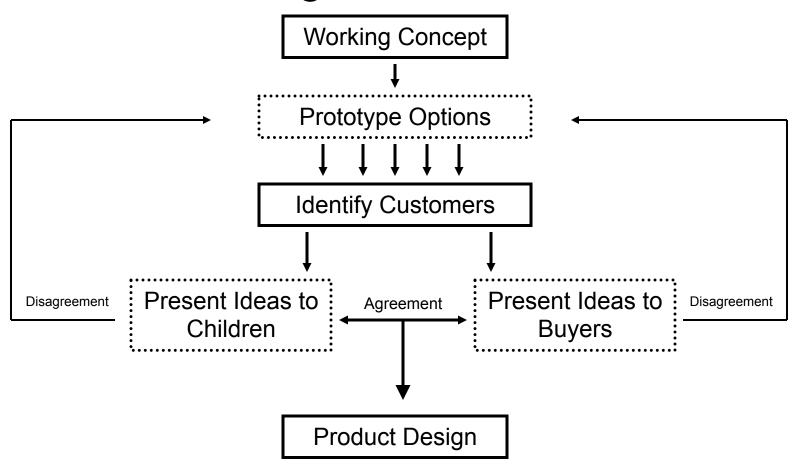






Market Considerations

Listening to our Customers



Design Considerations

Technical Feasibility

- Pump
 - Mechanical Piston Pump, Hand Crank
 - 13 ft-lbs torque, 3 gallons/min¹
- Control System
 - "Binary" Gear train
 - Combination Affects

¹ Source: www.solar4power.com/solar-power-water-pump.html

Design Considerations

Additional Considerations

- Maintenance
 - Bi-monthly cleansing additive²
 - Semi-annual standard filter change
- Durability
 - Variety of environments
 - Material/Component selection

² Based on 1 order of magnitude improvement over conditions in populated fishbowl.