Specifications
Olfaction Satisfaction
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I. Introduction and Overview

The project’s purpose is to develop an olfactory device for Passionworks individuals with severe cognitive and motor disabilities. Individuals with these disabilities find it difficult to link other sensory information together to produce a cognitive whole. For this reason, interactive devices have been developed to stimulate the individual’s senses of touch, sight, and hearing. However, the sense of smell is largely without stimulation in these current devices and, as a result, the individual’s ability to coordinate the other senses with the sense of smell is left undeveloped. Therefore, the purpose of the olfactory stimulation device is to stimulate the olfactory senses in conjunction with the other senses of touch, sight, and hearing. This allows all of the individual’s senses to operate in conjunction with one another, providing the individual with adequate stimulation to facilitate cooperation among the senses. Hence, the olfactory stimulation device will emit scent upon input from an adaptive switch that is controlled by the individual.

II. Technical Specifications

**Electrical Parameters**

- Battery Life: 6 month (Rechargeable)
- Power Input: ~20V
- Current: ~2A
- Fan
  - Voltage: ~12V
  - Current: ~0.09A

**Mechanical Parameters**

- Input
  - Squish Switch
    - Dimensions: 2 inch. X 2 inch.
    - Actuation Pressure: 0.001 NT max
  - Large Touch Pad
    - Dimensions: 6 inch. X 4 inch.
    - Actuation Pressure: 0.001 NT max
- Size: 2ft X 2ft X 0.5ft max
- Weight: ~5lb -10lb
- Durability: operate nominally after 10 squeeze
## Environmental Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
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<tbody>
<tr>
<td>Location</td>
<td>Floor Level</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>60°F - 90°F</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>60°F - 90°F</td>
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</tbody>
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