HoseGoes

Orange B Sketch Model Review

Introduction

Approaches for finding fire hose in low visibility

- Sound
- Light
- Touch
- Directionality guider on hose
- Lead out of building

Engineering Criteria

- Light weight
- Maneuverable
- Durable product
  - [will get kicked, driven over, thrown, etc.]
- Power: Battery with long life
- Flame retardant material

Market Need

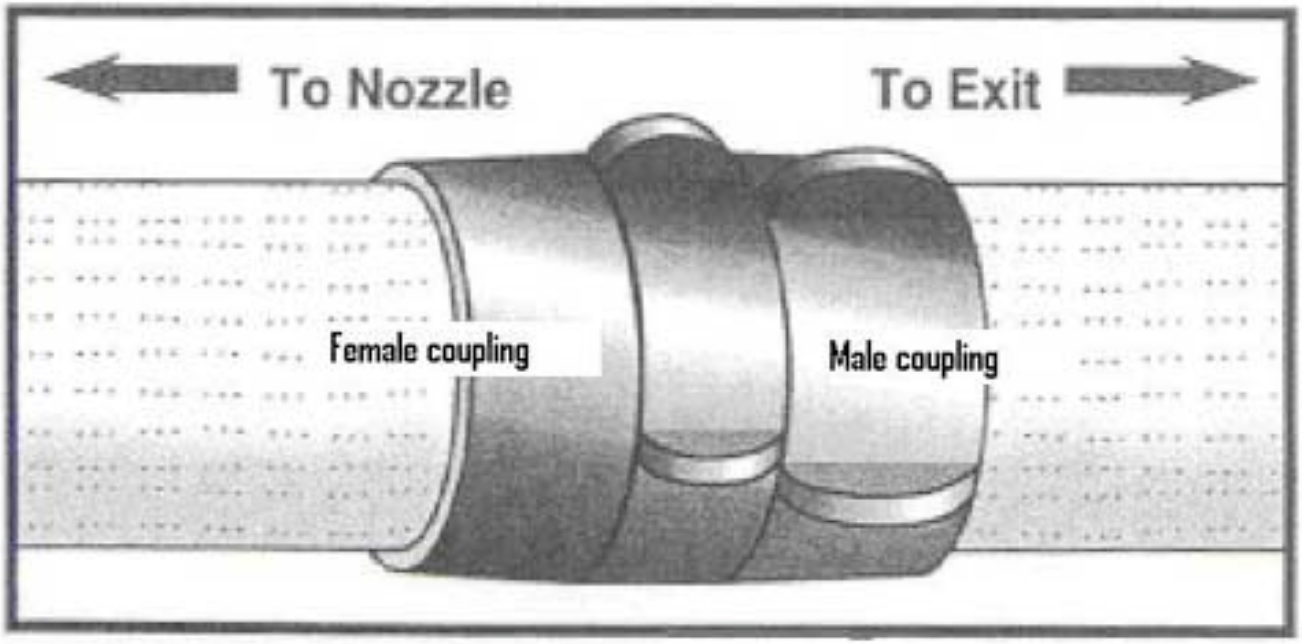
- From 2004 through 2008
  - 119 firefighters died while on scene
  - 16 of those were directly due to being LOST
  - 25 were due to being caught or trapped

Market Size

- 51,950 Fire Stations in the US
- 1.6 M Fire Responses in 2007

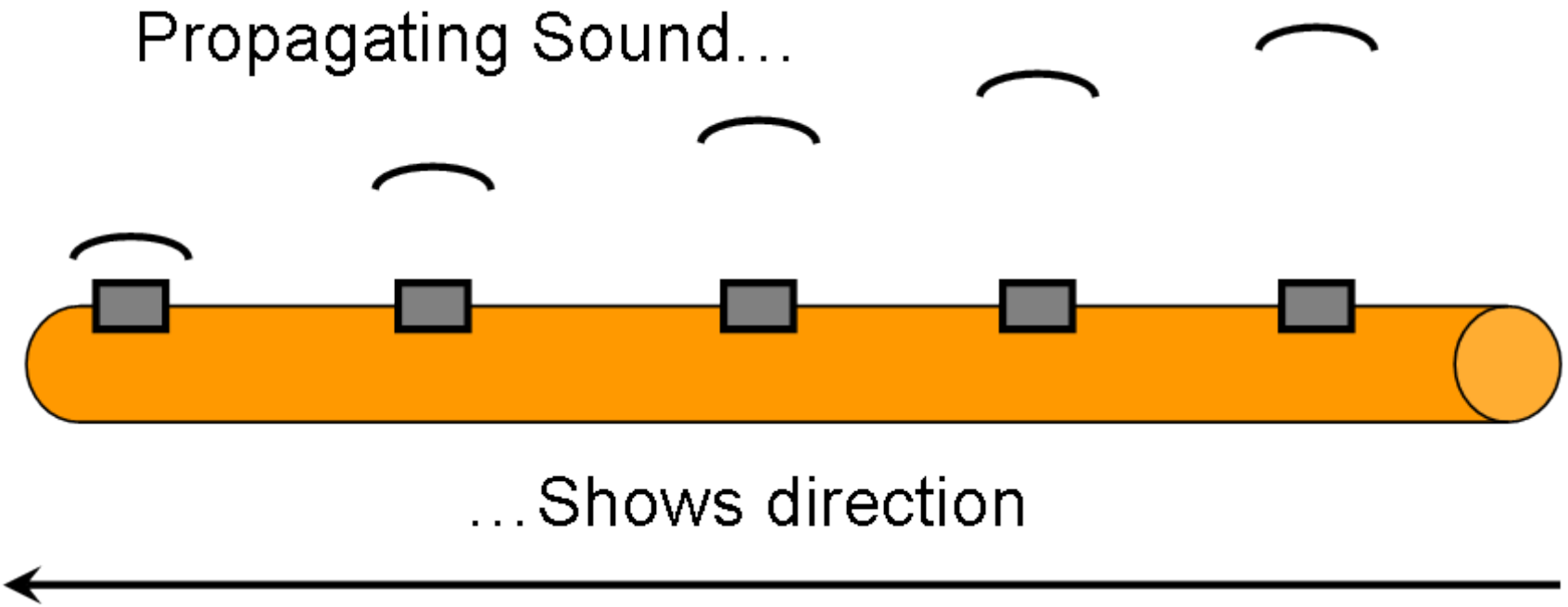
1st Approach: Tactile Model

- Currently they use “Bumps to the Pumps”
- Our Model



2nd Approach: Audio Model

- Could possibly show direction using sound
- Loud, distinguishing sound



3rd Approach: Visual Model

- Visibility is better lower to the ground
- Lights show directionality

Sketch Model and Testing

- Feedback from Cambridge Fire Station

Acknowledgements

www.usfa.dhs.gov

Cambridge Fire Department