



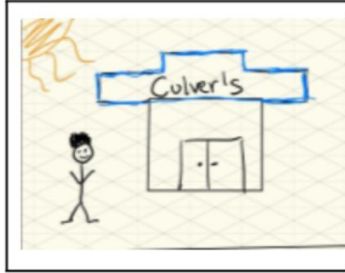
# A13 - Preliminary Design Review

April 29th

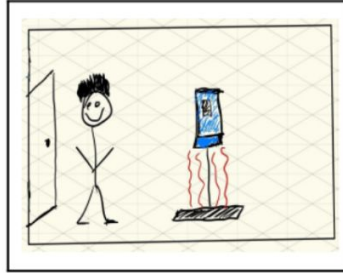
Mathias Kohler, Millie Schwartz, Michelle Zhou

# Contactless Soda Fountain Pusher

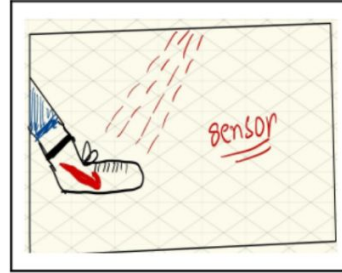
1



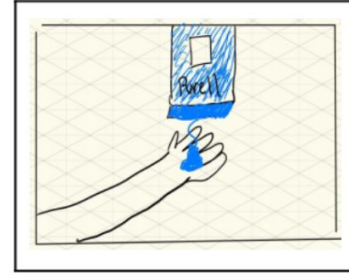
A customer walks in to Culver's on sunny afternoon in March



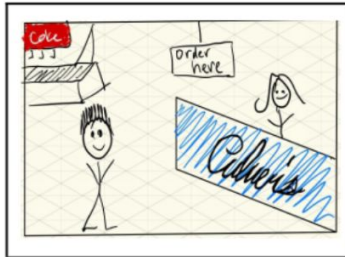
A customer approaches automatic hand sanitizer dispenser



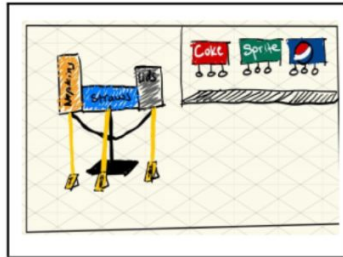
A customer uses his foot to activate sensor



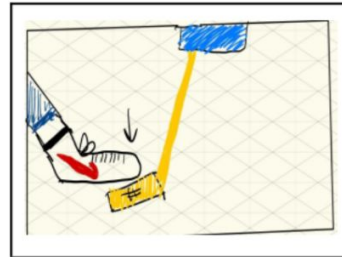
A customer receives the hand sanitizer



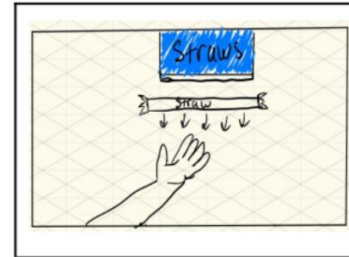
A customer then approaches the counter to order his food from the user



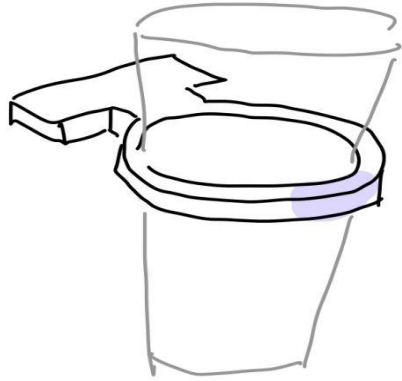
A customer orders his drink and then walks to side counter to get cutlery



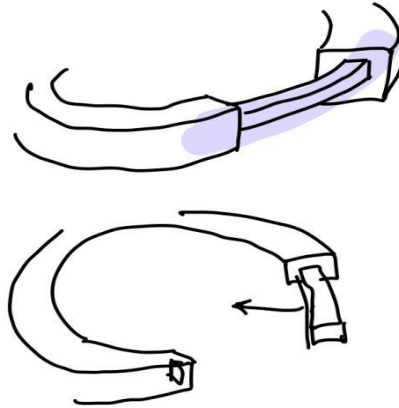
A customer uses the pedals to dispense a straw for his drink



A customer receives his straw from the dispenser



adjustable?

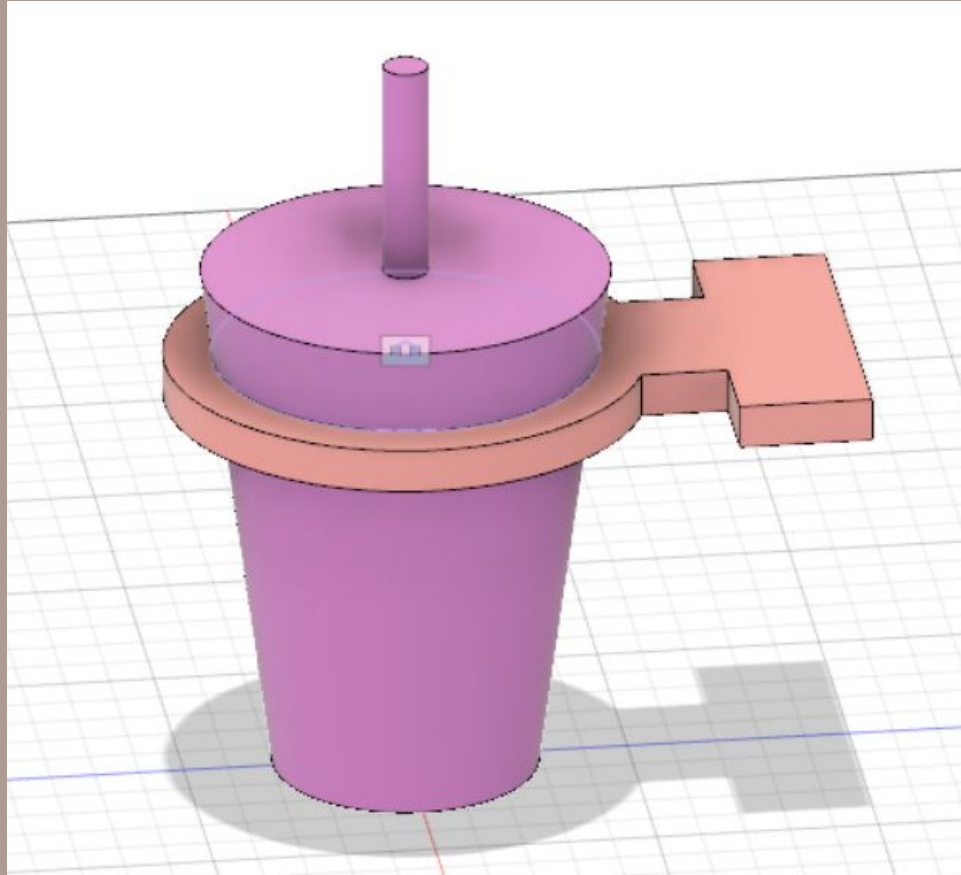


side view w soda fountain



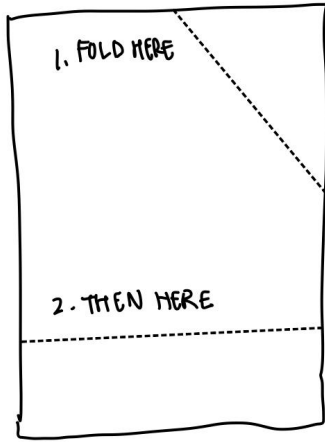
- **Need addressed:** essential works not trusting customers to be sanitary while refilling cups
- **Design reasoning:** it's a fun add-on!
- **The design:** a disposable cup holder with a protrusion

# Preliminary CAD

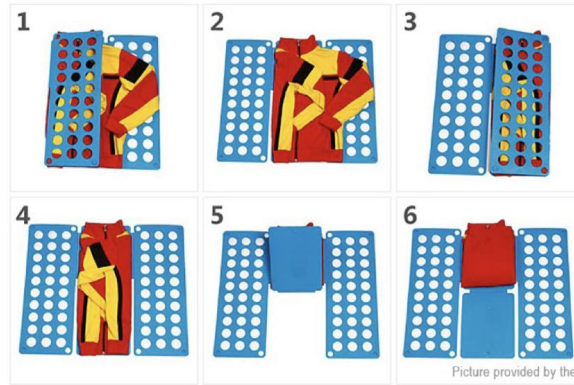


# Wearable Receipt Bracelet

2



possibly made more  
efficient w a device



Picture provided by the manufacturer

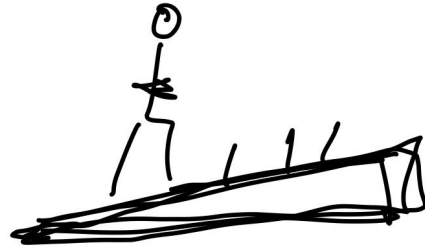
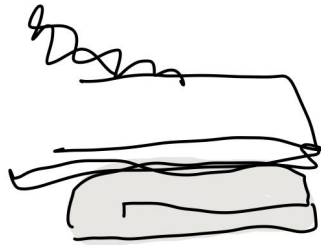
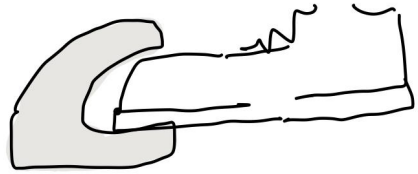
- **Need addressed:**  
customers losing their  
order numbers
- **Design reasoning:**  
make it fun!  
make it memorable!
- **The design:** folding  
instructions OR ez  
folding device

# One-Way Traffic Enforcer

3



### 3. Tripping hazard ;)



- **Need addressed:** customers not following the one-way traffic rules because signs aren't clear
- **Design reasoning:** it almost forces the customer to realize something's wrong
- **The design:** like tire spikes but for people and less lethal