



Ben Stibal
Industrial Designer

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630-414-4688
bhstibal@gmail.com
www.benstibal.com

Design Approach

I strive to craft a relationship between the user and product by employing emotion and reason in my process.

Education

Purdue University, West Lafayette IN | August 2013 - May 2017
B.A. Industrial Design, 5/13/2017

Experience

Huge Design | Industrial Design Intern
July 2017-October 2017

Blue Clover Studios/Berry Plastics | Industrial Design Intern
May 2016 - August 2016

Tiktek Marketing | Freelance Graphic Designer
August 2014 - December 2015

Houghton Mifflin Harcourt | Quality Control
June 2014-August 2014, June 2015-August 2015

Luke and Ben's Lawn Services | Co-Owner
May 2007 - August 2015

Design Skills

Concept generation, CAD modeling, design research, task analysis, group ideation, design presentation, concept rendering, model-making, design for manufacturing.

Digital Skills

Solidworks, Rhino, Keyshot, Adobe CC, Fusion 360, Sketchbook Pro,
3D Printer Slicers, Mac and PC fluent.

Awards

Model Solution Sponsorship Award, Respire Respirator | February 2017
Industrial Design Department, Purdue University

Grand Prize- Industrial Design, Pod Coffee Table | February 2017
Art and Design Undergraduate Exhibition 2017, Purdue University

Grand Prize- Industrial Design, Hannah Guitar Stand | February 2016
Art and Design Undergraduate Exhibition 2016, Purdue University

First Place, Delta Faucet Design Project, Modo | November 2015
AD 305, Purdue University

Runner Up, National Office Furniture Design Project, Wrap | December 2015
AD 305, Purdue University

Grand Prize- Industrial Design, Elica Salt Shaker | February 2015
Art and Design Undergraduate Exhibition 2015, Purdue University

contents



respire



swap



modo



jive



wrap

respire

respirator



the problem:

Respirators are great for protecting our lungs, but have a lot of potential for misuse and often aren't used as frequently as they should be.

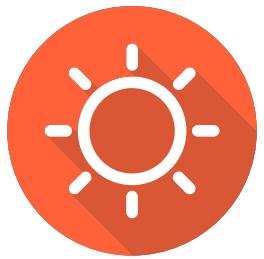
the solution:

Respire is meant to bring simplicity and comfort to the experience of using a respirator. By improving on the pain points of respirators and dust masks, Respire aims to make respirators more personal and customizable while increasing the frequency of use.

Respire won the 2017 Model Solution Sponsorship Award

Problem Identification

Gaining insight from user interviews.



Heat and Humidity

Problem Identifier:

"The air valve helps, but I feel like I keep breathing the same hot air."

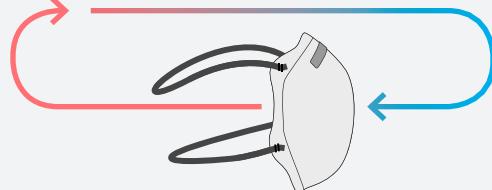


Root Cause:

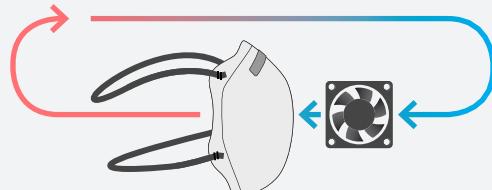
Heat Entrapment



Current State: Passive Filtration



Goal State: Active Filtration



Scratchiness

Problem Identifier:

"Dust masks are uncomfortable, but they're cheap and easy to store."

"I like the respirator's rubber seal but the straps are a pain."



Root Cause:

Mask Construction



Current State: Uncomfortable



bulky, cumbersome straps

staples, raw edges



Protection and Use

Problem Identifier:

"I would like to get a respirator, but I would have to use it more to justify getting one."



Root Cause:

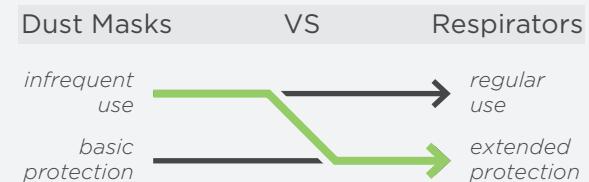
Product Use Patterns



Current State: Linear Market



Goal State: Crossover Market



Misuse

Problem Identifier:

"I usually use dust masks when I sand and spray-paint."

"I use the stock respirator filters, but I'm not sure what they're for."



Root Cause:

Product Misconceptions



Current State: Uninformed use



Goal State: Informed use



Mix and Match

Protection for your needs.

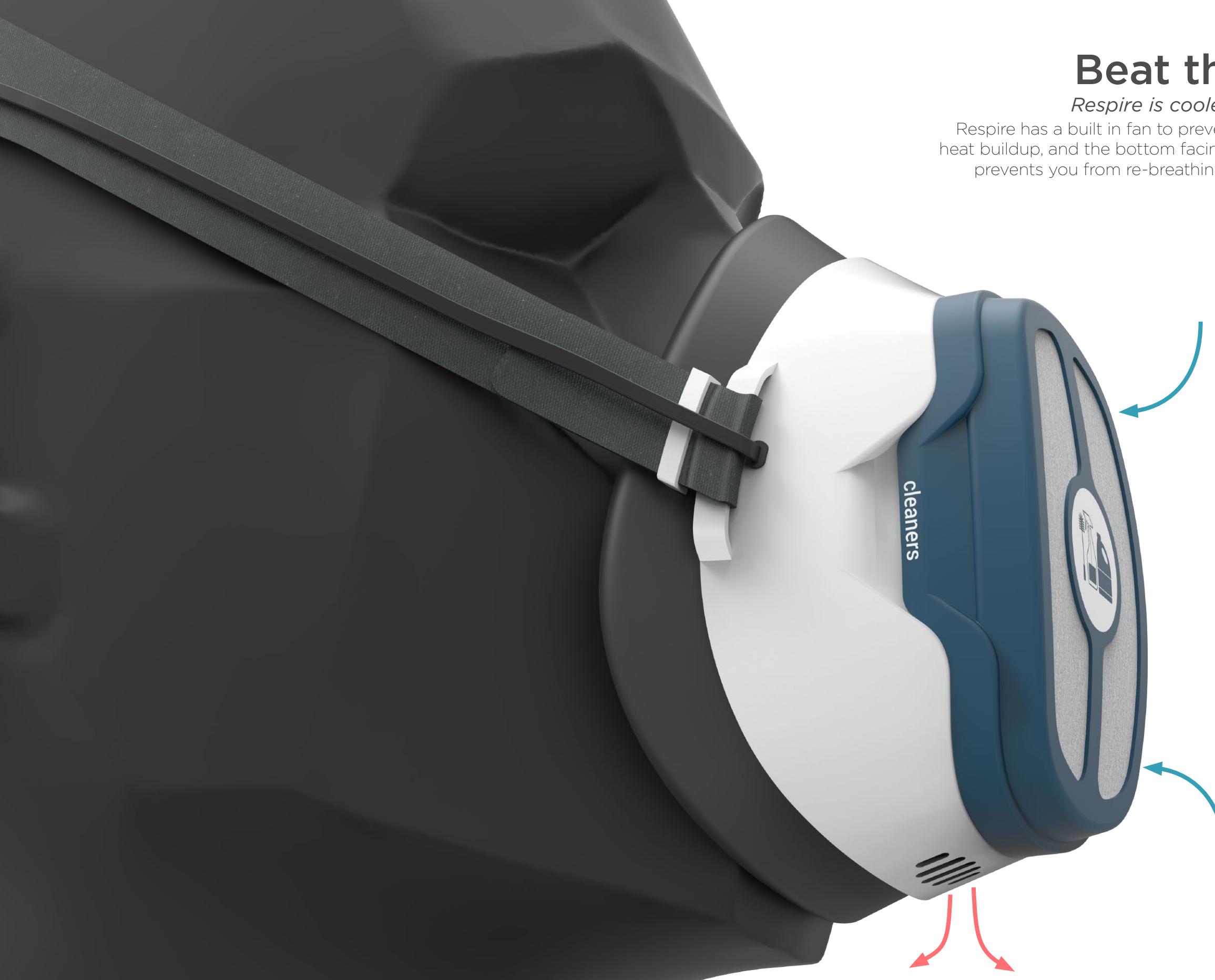
Respire's filters are swappable and stackable so that you can combine filters to customize your protection.



Beat the Heat

Respire is cooler than the rest.

Respire has a built in fan to prevent uncomfortable heat buildup, and the bottom facing exhalation valve prevents you from re-breathing the same hot air.



Pick Your Protection

Use what you need, leave what you don't.

Respire has a lineup of specialized filters that match your specific needs and are easy to understand.



spray paint



mold & mildew



lawn & pollen



cleaners



dust

Take Charge

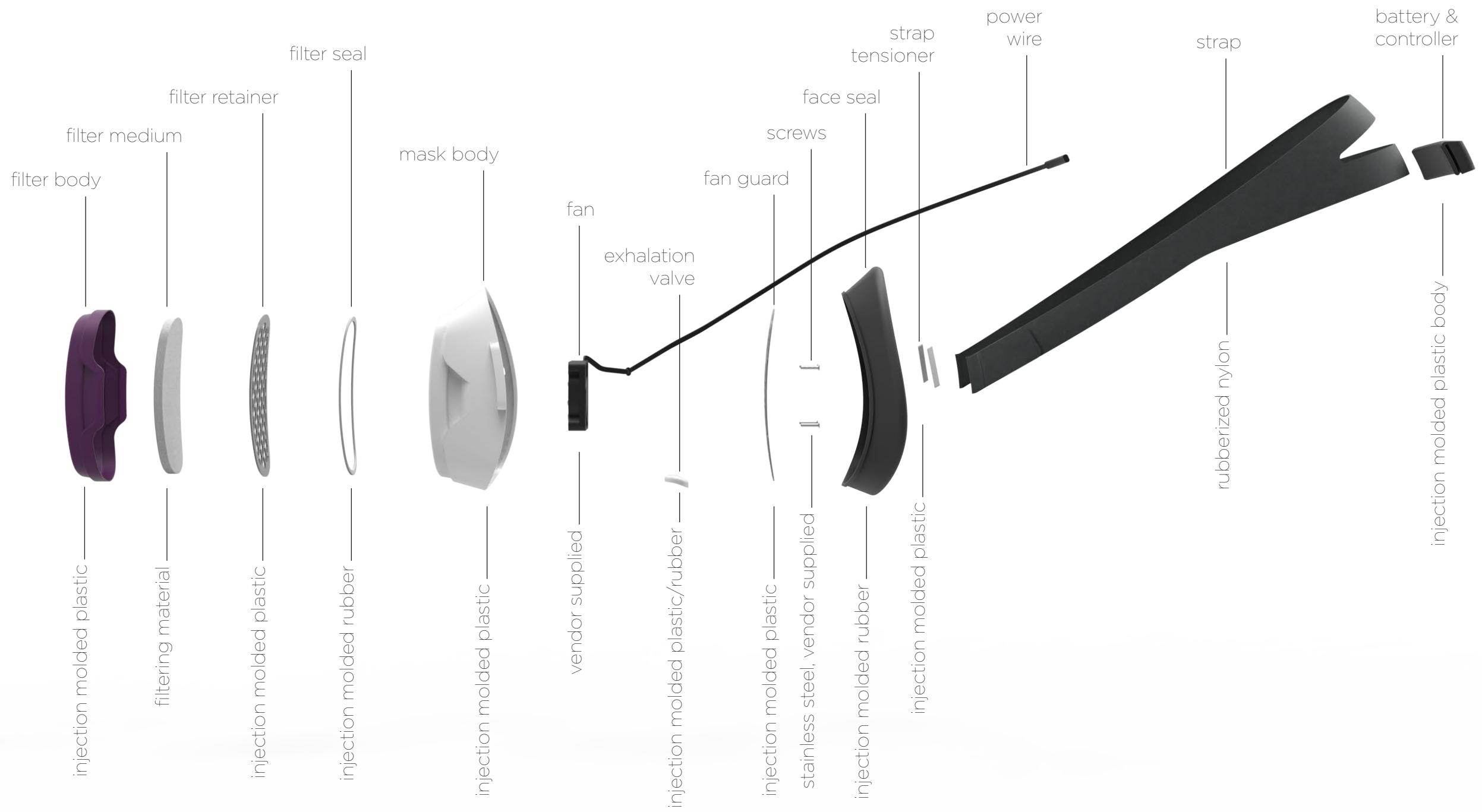
Control Respire with a touch.

Respire's rechargeable fan battery and control is out of the user's sight, but the textured rubber button makes controlling Respire quick and easy.



Exploded Construction

Designed with manufacturing in mind.





swap

active watch



the problem:

Digital information can be obtrusive in some situations, especially in wearables. Many wearables lack the focus and ruggedness required by active, adventurous users.

the solution:

Swap is a smart watch for active users. It is meant to create an uninhibited, unintrusive experience that allows for quick access to information.



Don't sweat it, swap it.

Repairs made easy.

Swap's bezel is designed to protect the watch screen and body from scuffs and other damage. Like a built-in case, the bezel is replaceable in the event of damage or in the need of a face-lift. That way, you can focus on your well-being and not the well-being of your watch.

Quick Look UI

See only what you need the most.

Swap's UI focuses on the core elements of a fitness watch to ensure quick and efficient use.



— detail view:

*detailed fitness info
(run distance, time, and pace)*

two-finger swipe

— quick look:

*focused fitness info
(run distance)*

one-finger swipe

— wake state:

time and date

one-finger swipe

— quick look:

*focused weather info
(current weather)*

two-finger swipe

— detail view:

*focused weather info
(current weather, hi/lo, precipitation)*



Fitness



Time



Weather

modo

modular hand shower



the problem:

Design a modular hand shower system with a minimum of four interchangeable modules which perform a specific and unique function.

the solution:

Modo is a hand shower ecosystem which addresses canine care, stain removal, accessibility, and exfoliation.

Modo won first place from Delta Faucet.

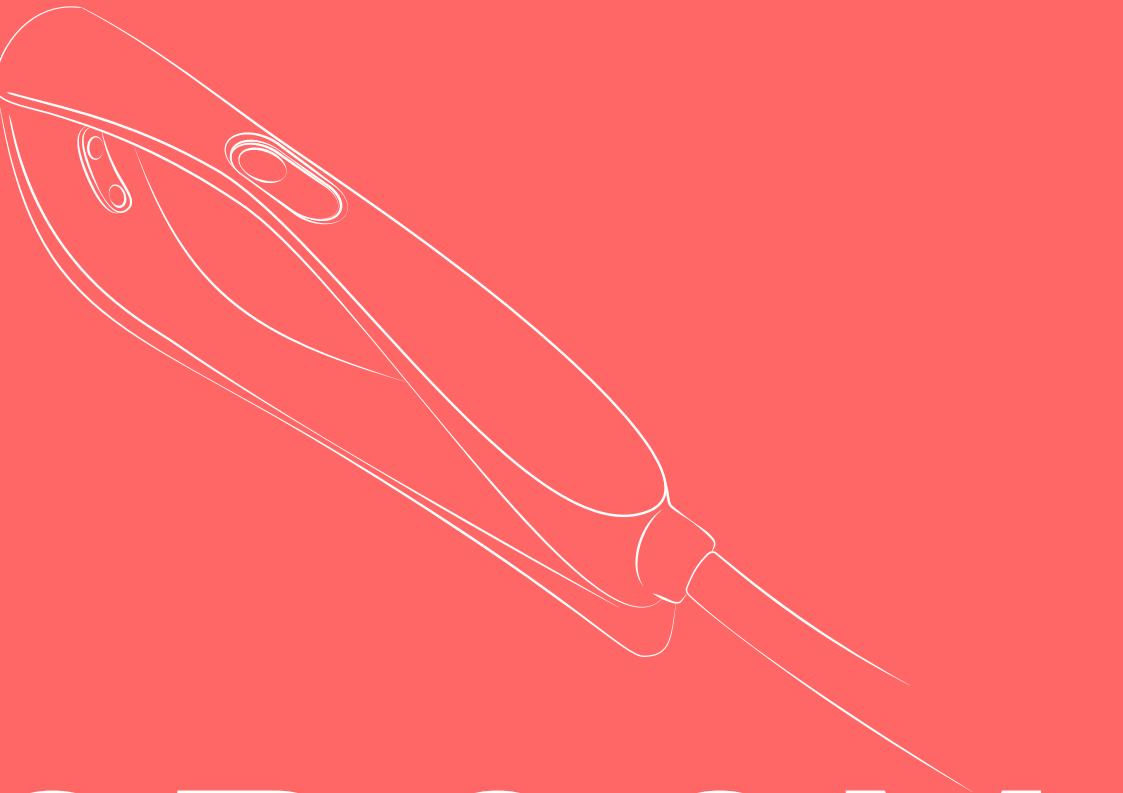
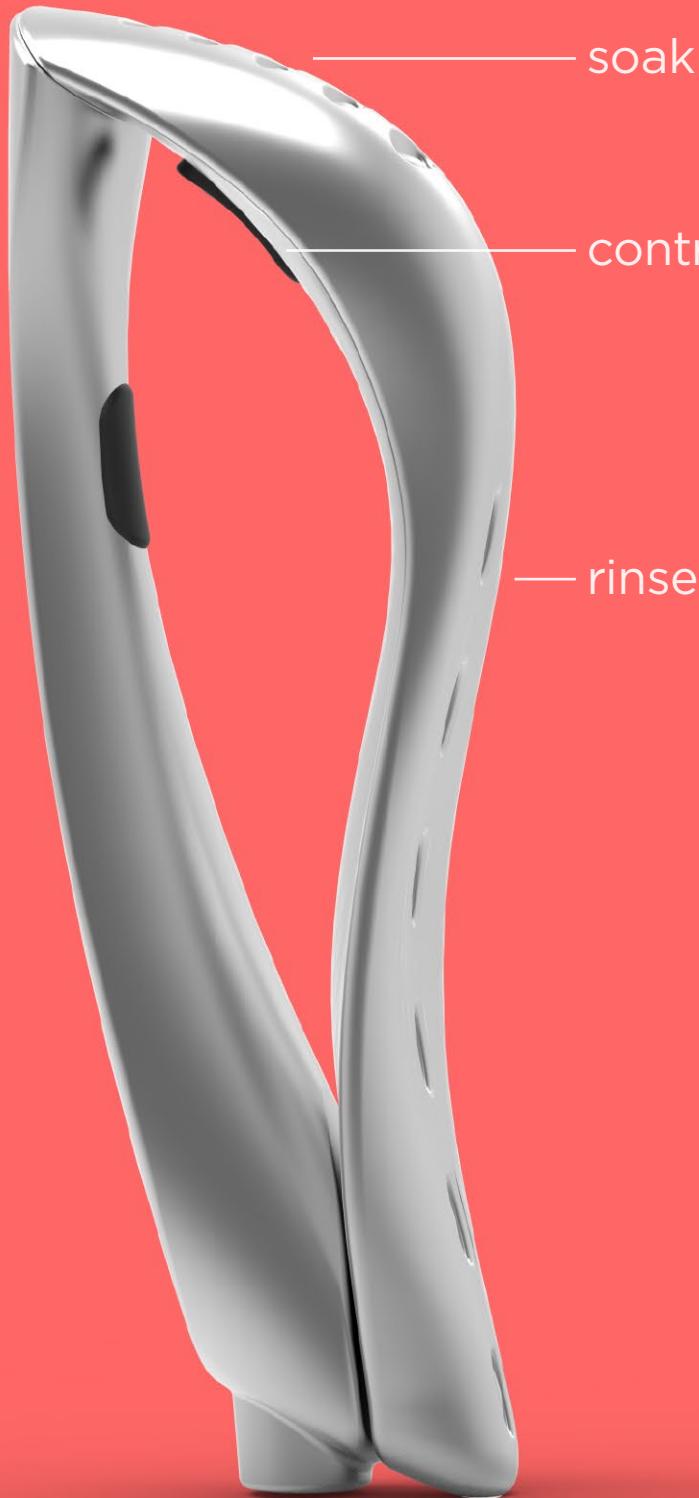


MODO 
DELTA 

Keep Fido's Face Dry With Less Hassle

Better control for a more comfortable clean.

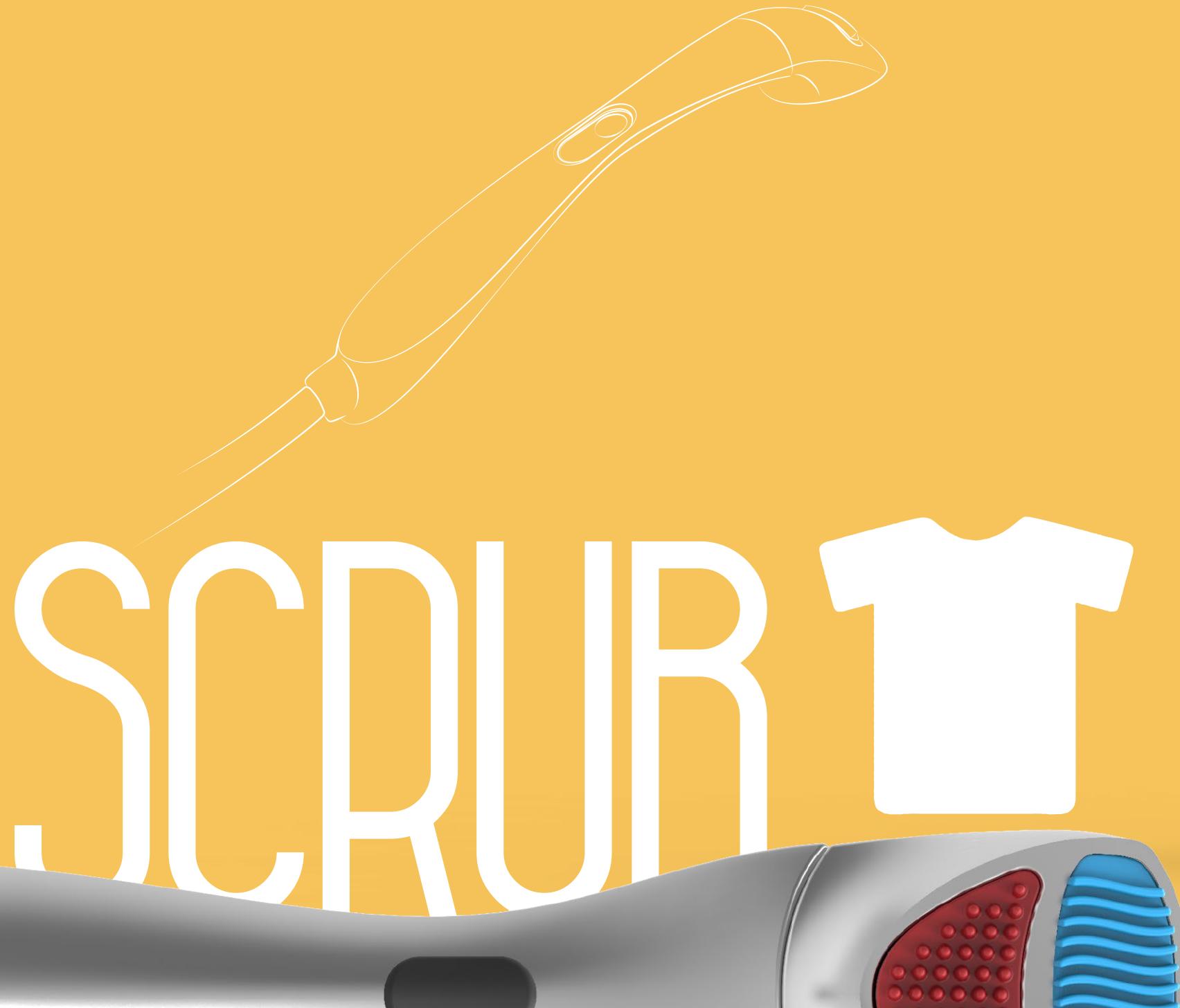
Modo's Groom attachment makes the experience of bathing your dog more comfortable and natural. The Groom attachment is contoured so that it can run along the dog's body in a petting motion to comfort the dog. The one handed operation keeps the owner in control.



Fight Stains With the Power of Your Shower

Deep clean to revive your clothes.

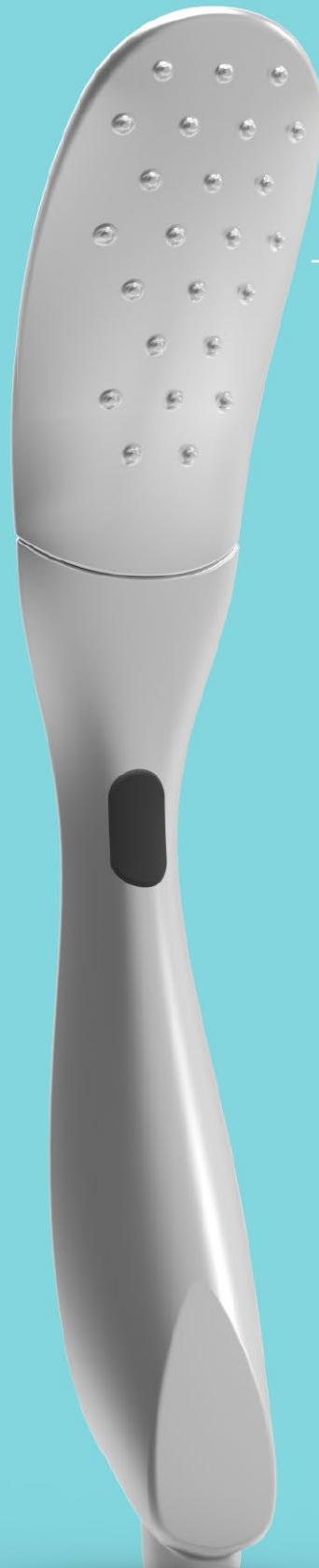
Modo's Scrub attachment simplifies stain removal by flushing out contaminants while you work. The three treatment surfaces provide you with the tools to fight any stain on any fabric.



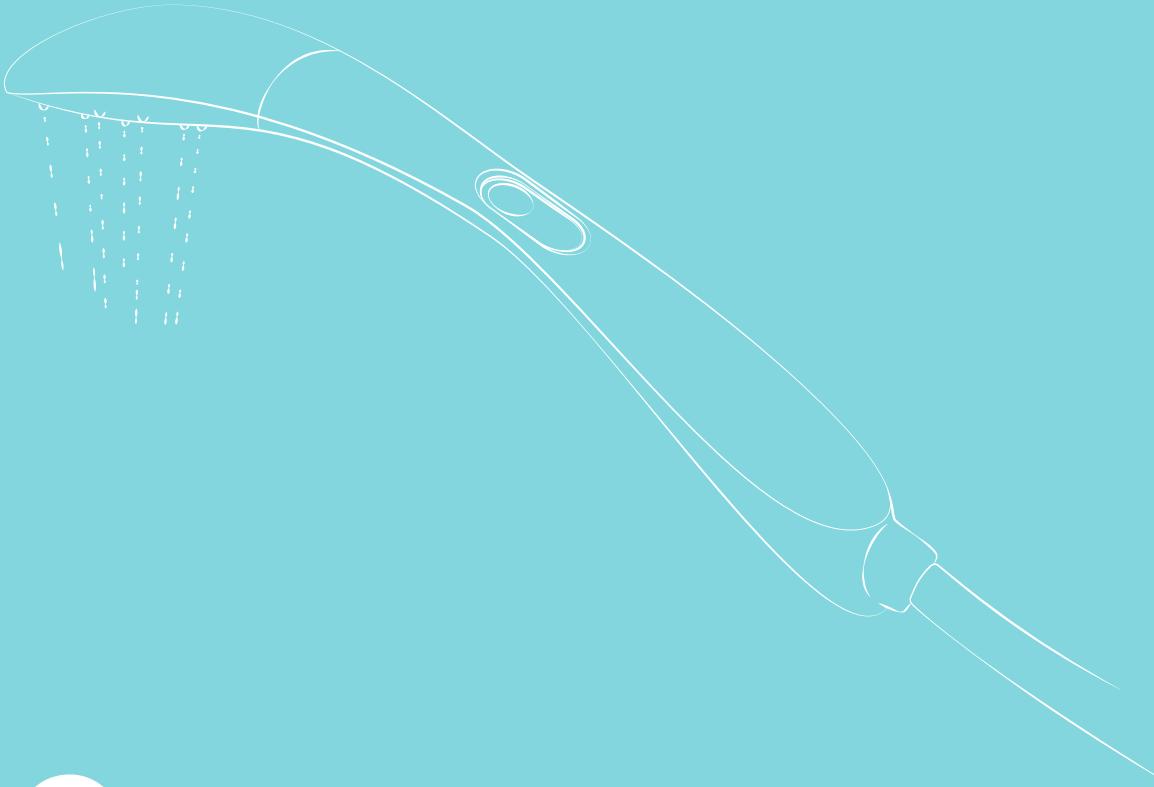
Go Where No Shower Has Gone Before

Better accessibility for complete coverage.

Modo's Reach attachment makes the act of bathing easier for people with limited mobility and reduced joint movement. By extending the arm with this curved attachment, Reach enables users to access difficult areas like behind the back and over the shoulder.



— wide angle
spray



REACH

Free Your Feet

Exfoliation made easy.

Modo's Renew attachment makes the exfoliation experience cleaner by flushing the replaceable pumice with water to keep it clear of skin cells and microbes.



RENEW



exfoliating pumice

rotate for comfort



the problem:

Follow an aesthetic design approach to design an electronic product with manufacturing in mind.

the solution:

Jive is a bluetooth speaker with historical references in minimalistic form, drawing inspiration from vintage radios.



Form Exploration

Following direction from the characteristics of past products.

Body Shape: Rectangular



Control Interface: Knob



Portability Features: Handle



Sketch Exploration

Concept and feature ideation.







the problem:

Design a bench for indoor and outdoor public installation.

the solution:

Wrap is comprised of a metal spiral which encapsulates the wood seat, providing both structural support and a visual indication of personal space.

Wrap received runner-up from National Office Furniture.

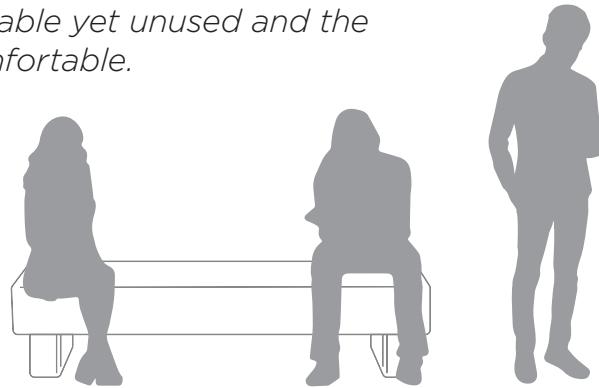


Problem Exploration

Gaining insight from user observation.

Observation: Undivided Seating

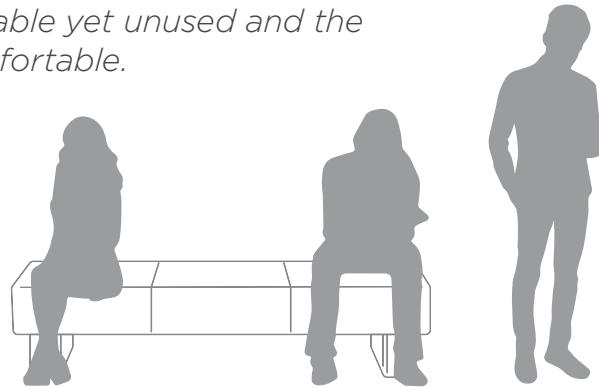
The center seat is available yet unused and the occupants appear comfortable.



VS

Observation: Divided Seating

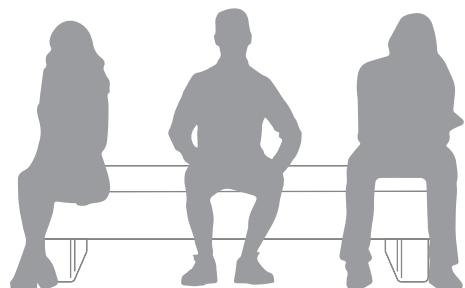
The center seat is available yet unused and the occupants appear comfortable.



Hypothesis: Physical and visual indications of personal space like cushions, arm rests, material differences, and parting lines create a sense of comfort in public spaces.

Validation: Undivided Seating

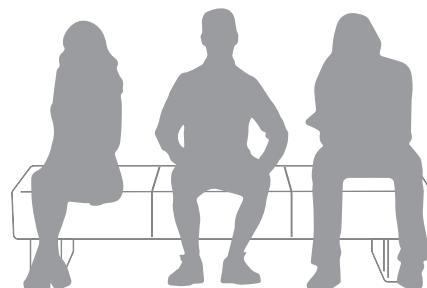
When the center seat is used, the occupants appear uncomfortable.



VS

Validation: Divided Seating

When the center seat is used, the occupants appear comfortable.



Deduction: Comfort in public seating is derived from a sense of personal space. This sense of personal space can be reinforced by the features of public furniture which can be used to encourage use.

Flavors

vanilla

brushed stainless steel & wood seat



tuxedo

black powder-coated steel & wood seat



picnic

galvanized steel & wood seat



Integrated Comfort

visual cue

reinforcement of personal space



Thank you.

Let's stay in touch!
bhstibal@gmail.com
linkedin.com/in/benstibal