Breathe – Respiratory trainer

Many people suffer from lung illness or get panic attacks and have trouble in breathing. One approach that has the potential to increase the function of the respiratory muscles is respiratory muscle training. The respiratory trainer helps the user exercise and treat his lung illness or get back his normal breath.

The methods used through this project included examining all aspects of the problems set out, examining the current market trends, conducting interviews of users, and observing other current products which would fulfil the problems set out in similar ways. Solutions to the problem were modelled in various ways such as both physically and digitally, and in all sizes such as scaled-down and life size

Sometimes usage of the bulky unattractive devices in public could be embarrassing to young population. Thus, there is a need to design an aesthetic and user-friendly respiratory trainer. Taking inspiration from lifestyle products for healthcare products and medical services gives human and emotional designs.

Problem statement

Many people suffer from lung illness or get panic attacks and experience difficulty in

breathing.

One approach that has the potential to increase the function of the respiratory muscles is

respiratory muscle training

However, using medical device outside, can make

the user uncomfortable.

Worried about what people think or about the safety.

Taking inspiration from lifestyle products for healthcare products and medical services

Gives human and emotional designs

What can we do to solve this issue?

Respiratory trainers

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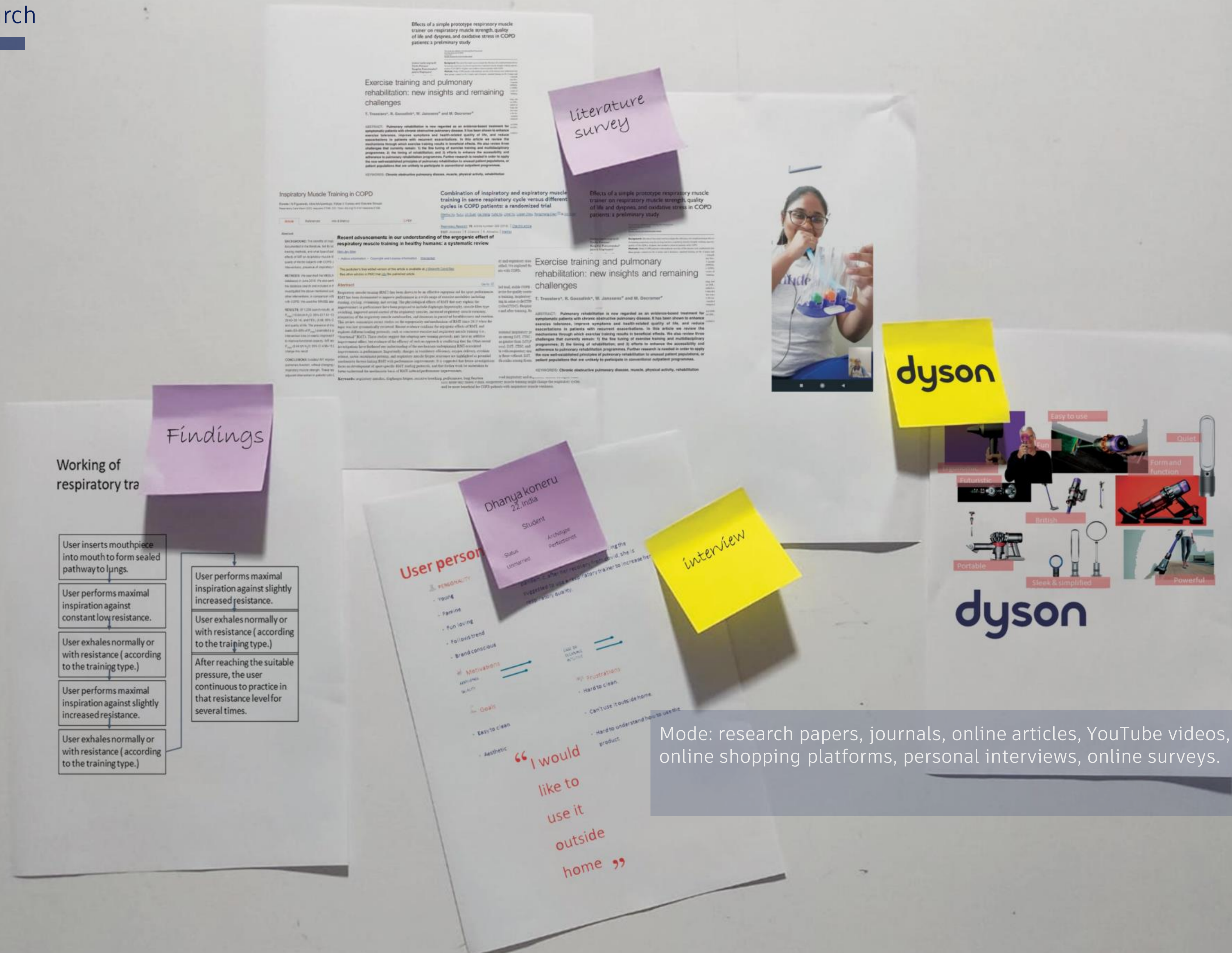
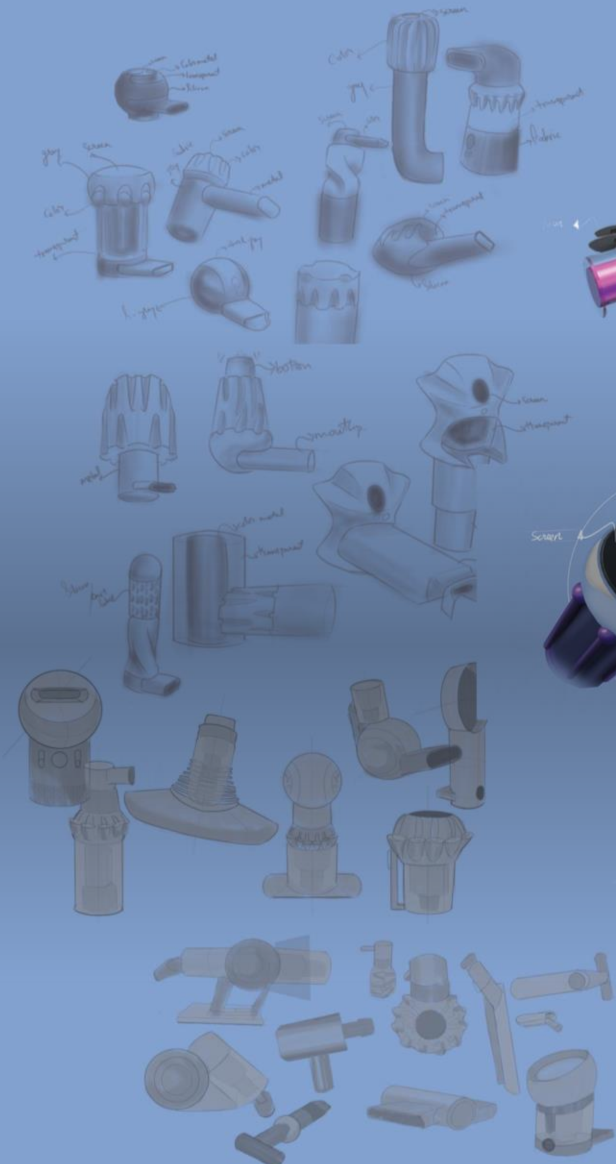
Attractive look

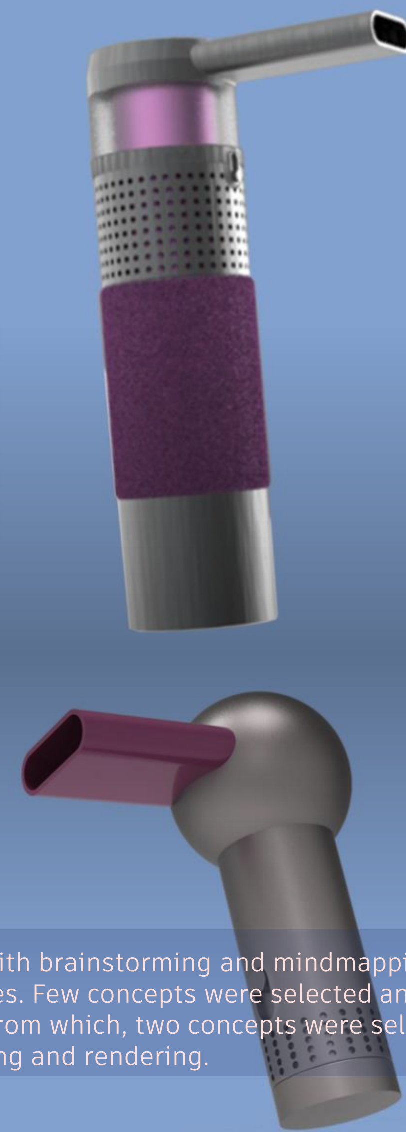
Research



Mode: research papers, journals, online articles, YouTube videos, online shopping platforms, personal interviews, online surveys.

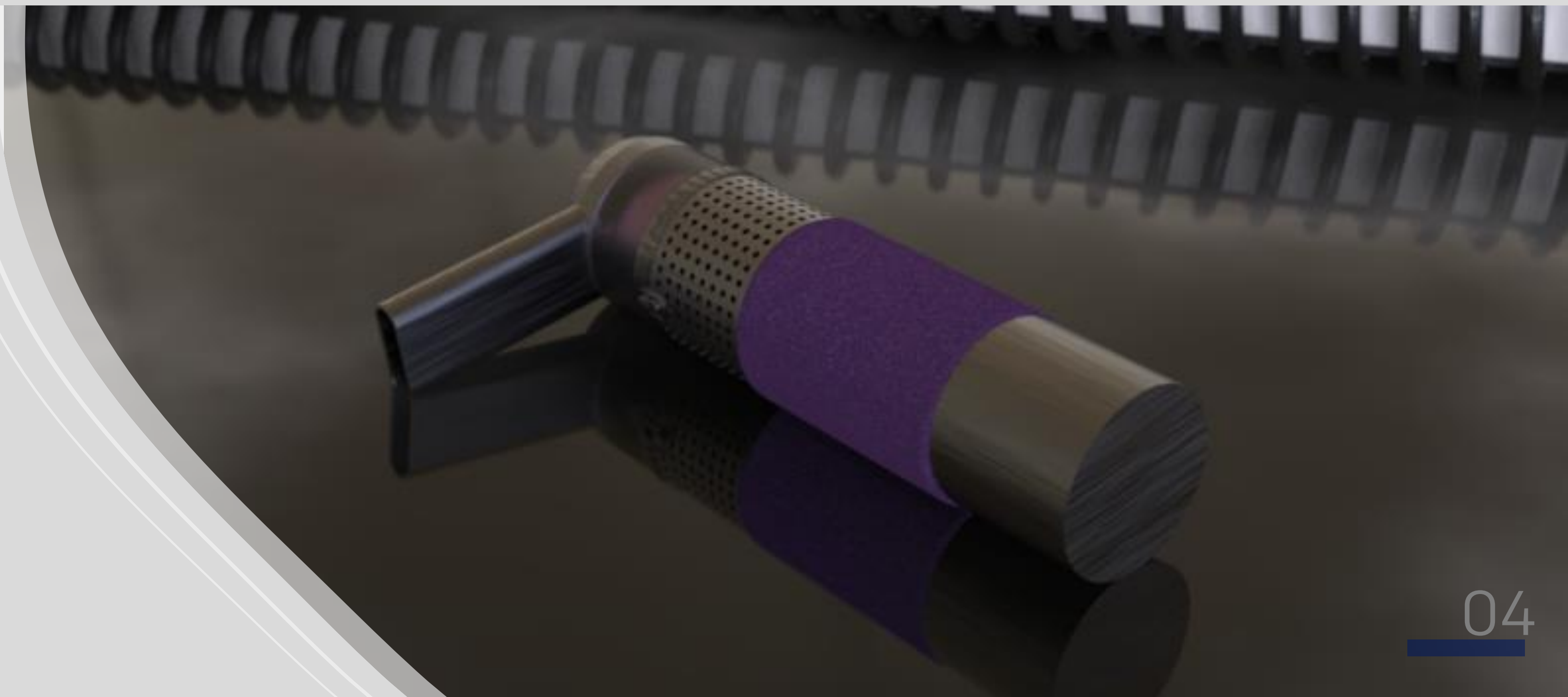


Ideation

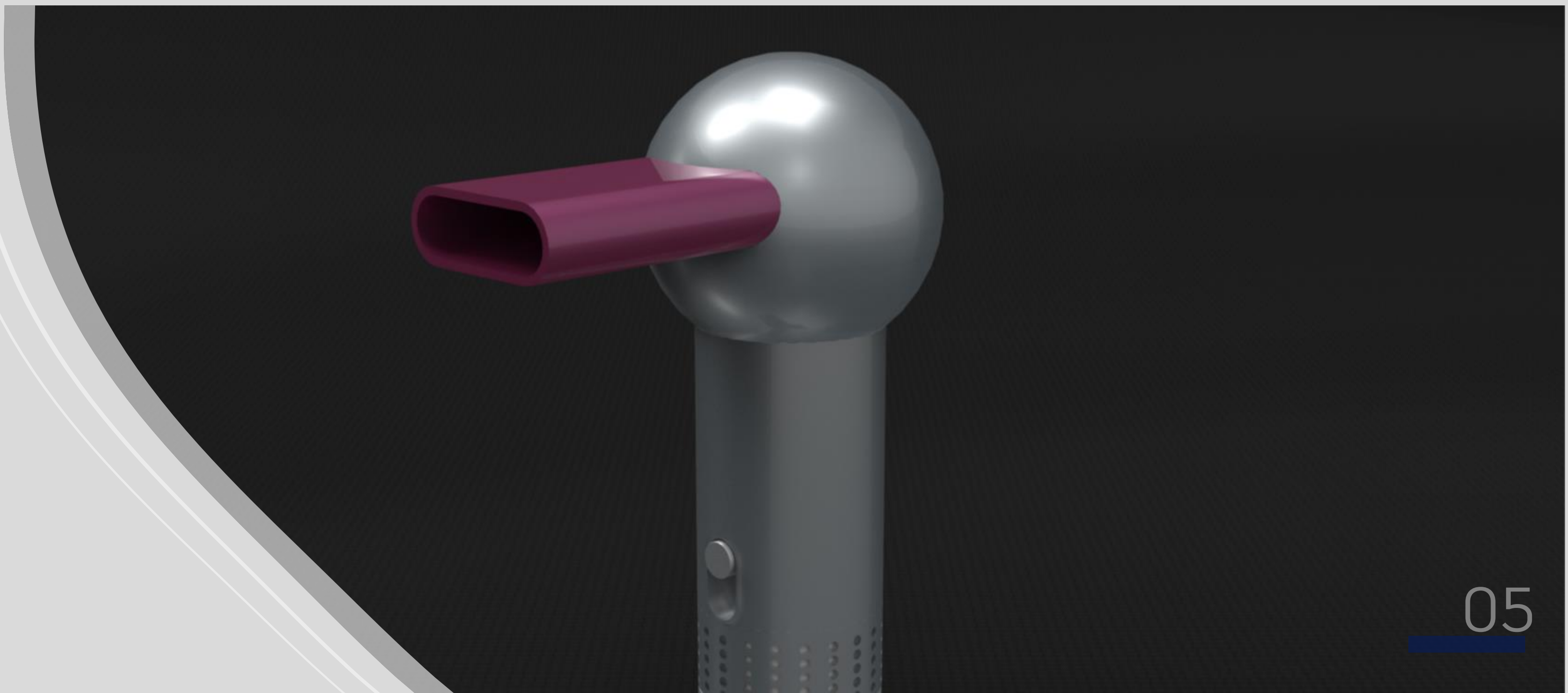


Ideation process started with brainstorming and mindmapping . It is then followed by doodle sketches. Few concepts were selected and then visualized using digital illustration. From which, two concepts were selected for visualizing through virtual 3D modeling and rendering.

Concept-1



Concept-2



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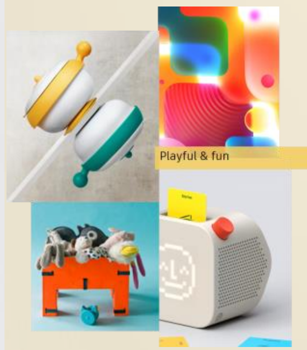
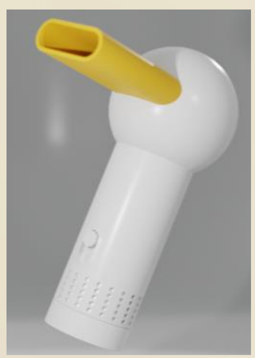
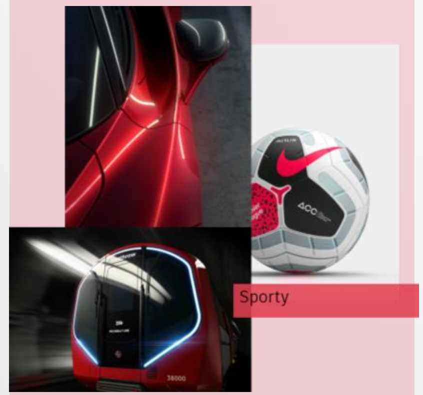
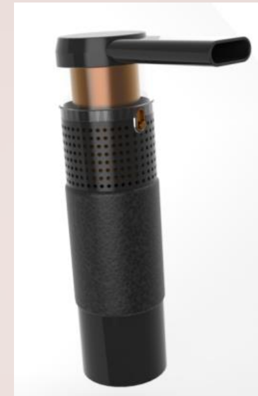
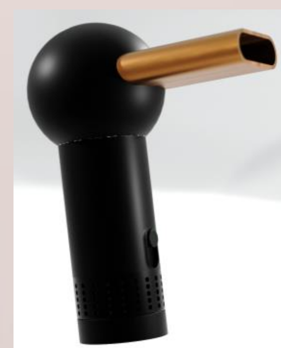




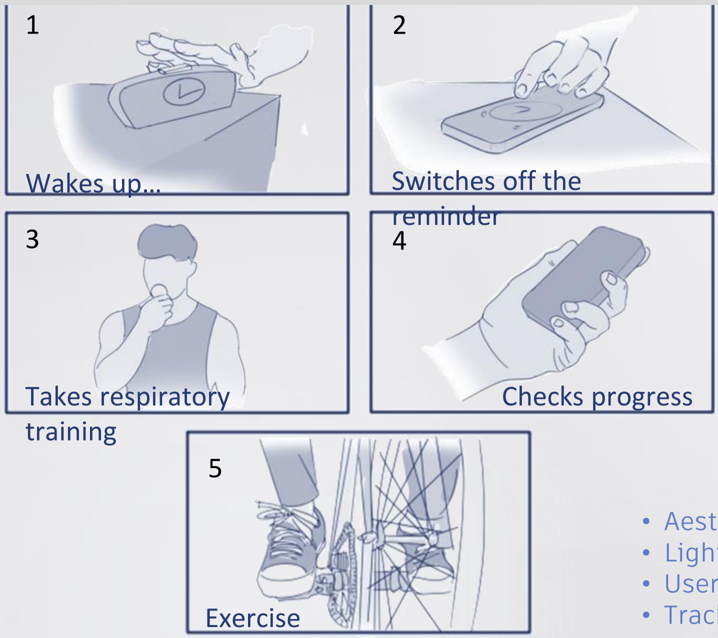


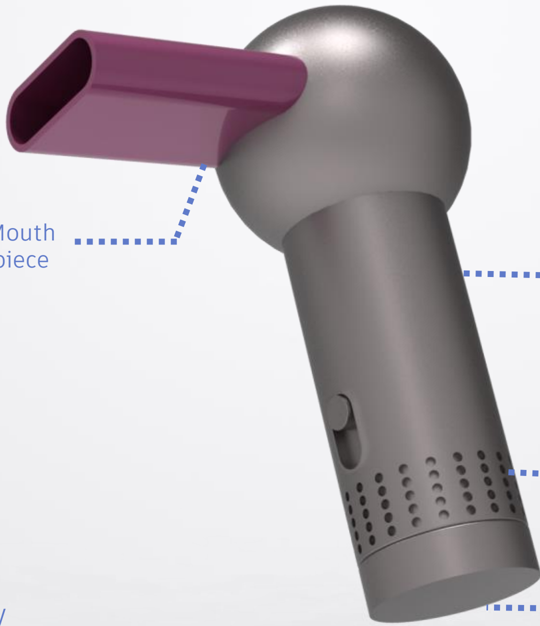




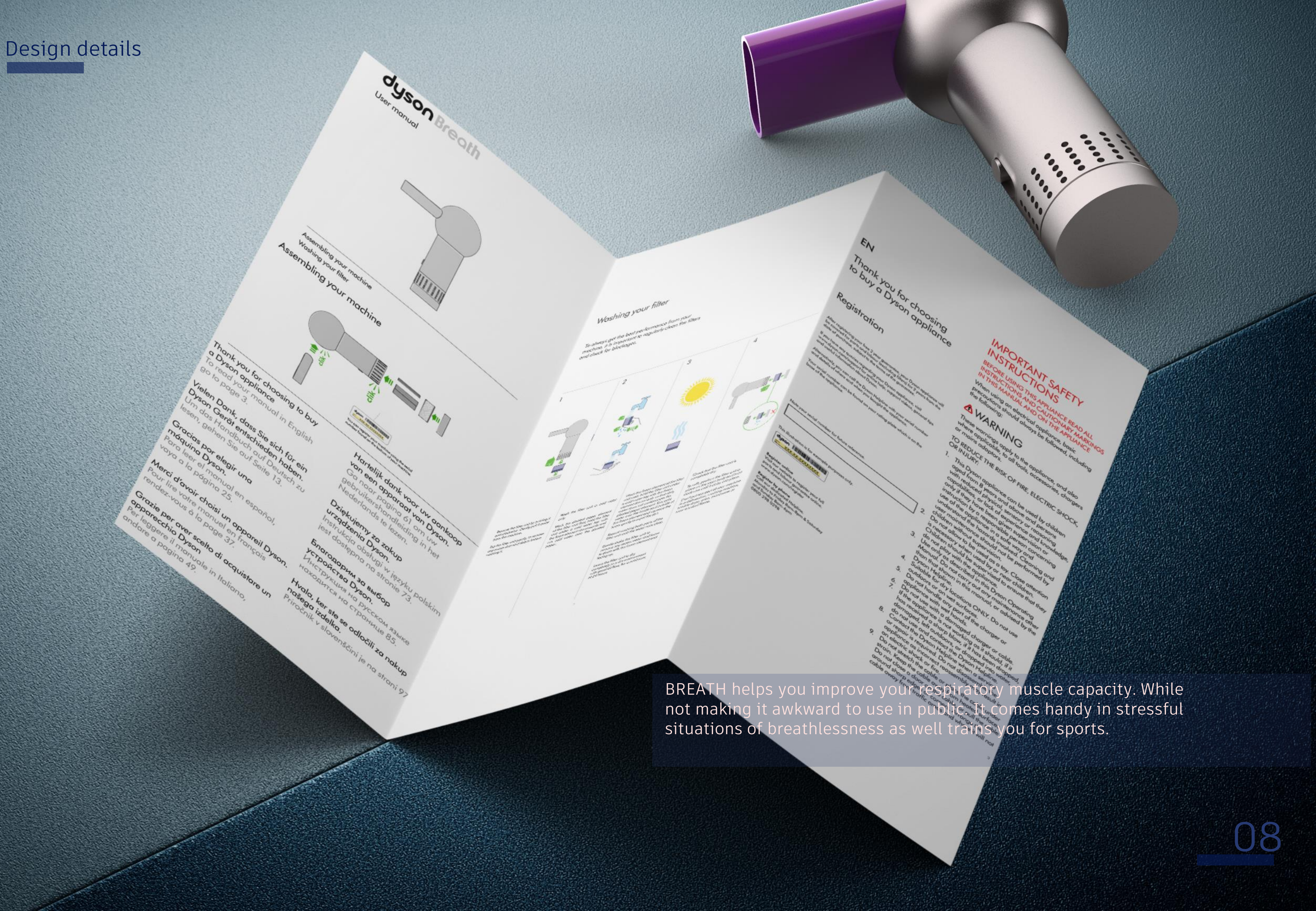
Features

Respiratory trainer “INHALE” in a regular day of a cyclist





- Aesthetic look
- Light weight and handy
- User friendly.
- Trackers for recording the progress.



BREATH helps you improve your respiratory muscle capacity. While not making it awkward to use in public. It comes handy in stressful situations of breathlessness as well trains you for sports.

Model making

Appearance model is made using plastic ball, PVC pipe and sun board as base materials and tools like files, hacksaw, drilling machine, spray gun etc.

dysonBreath

Breath easy!

dysonBreath

A respiratory trainer you can take
with you anywhere!