



TENSION VAC

A SUSTAINABLE VACUUM REDESIGN

MOOD BOARDS

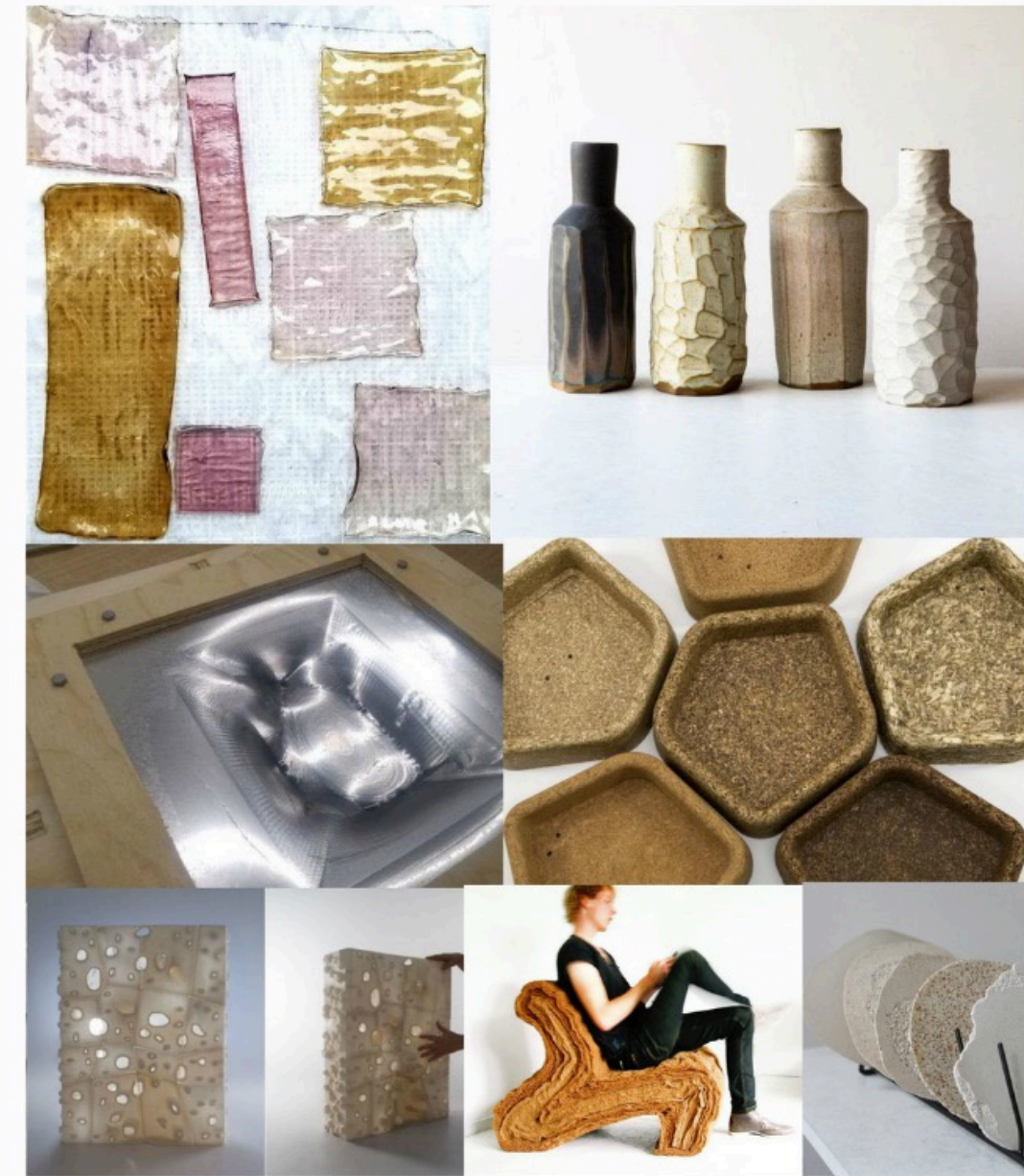
ASSEMBLY

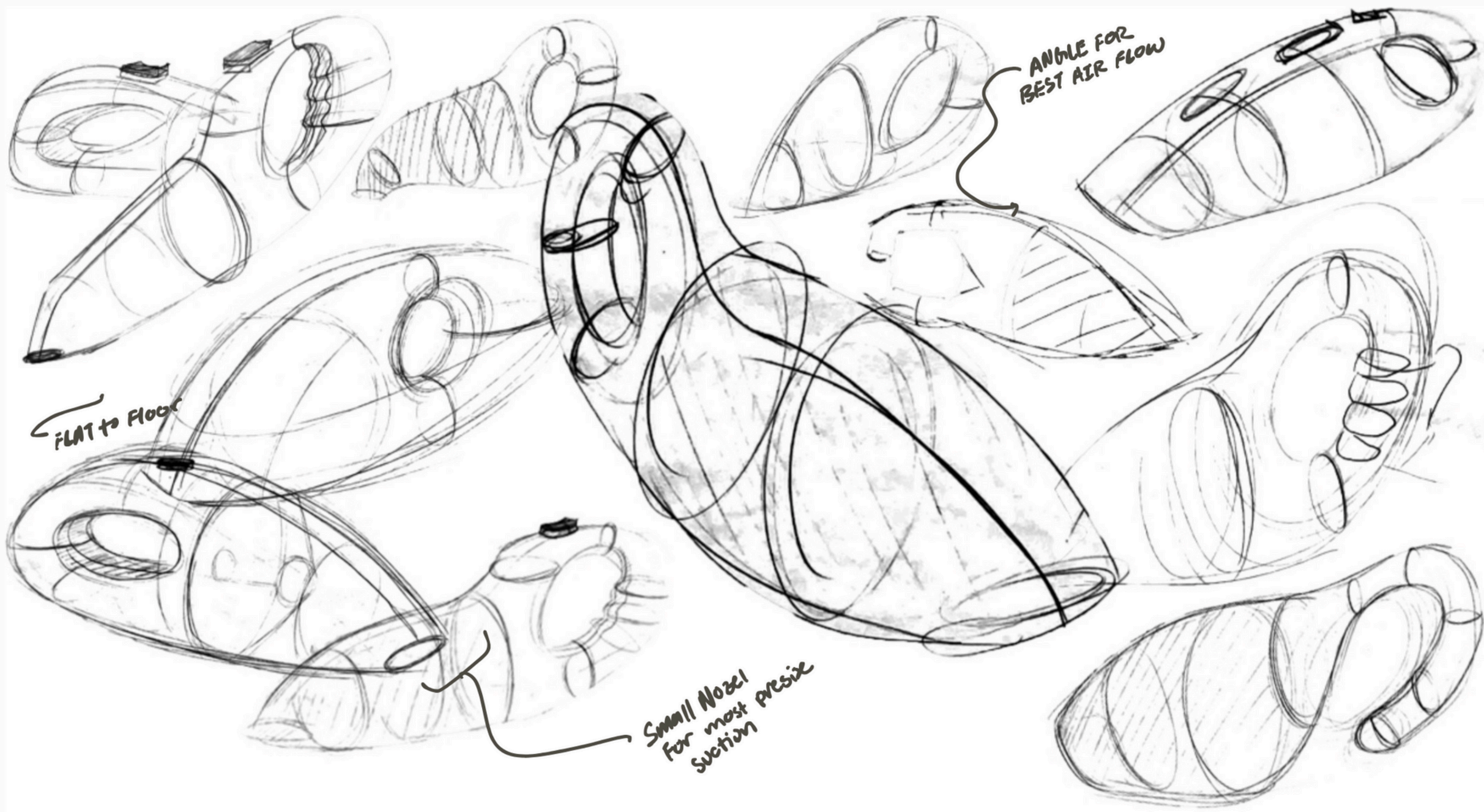


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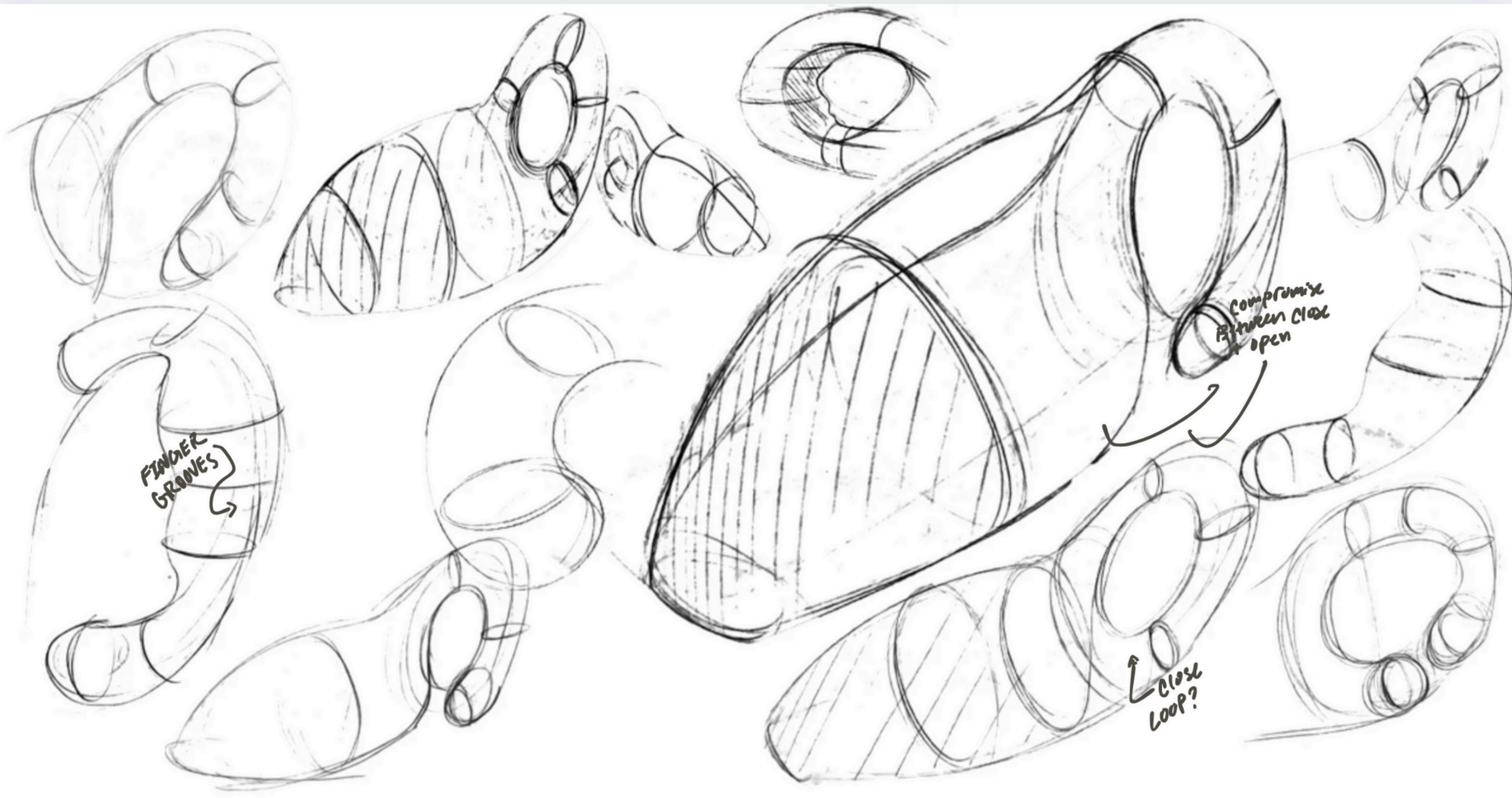


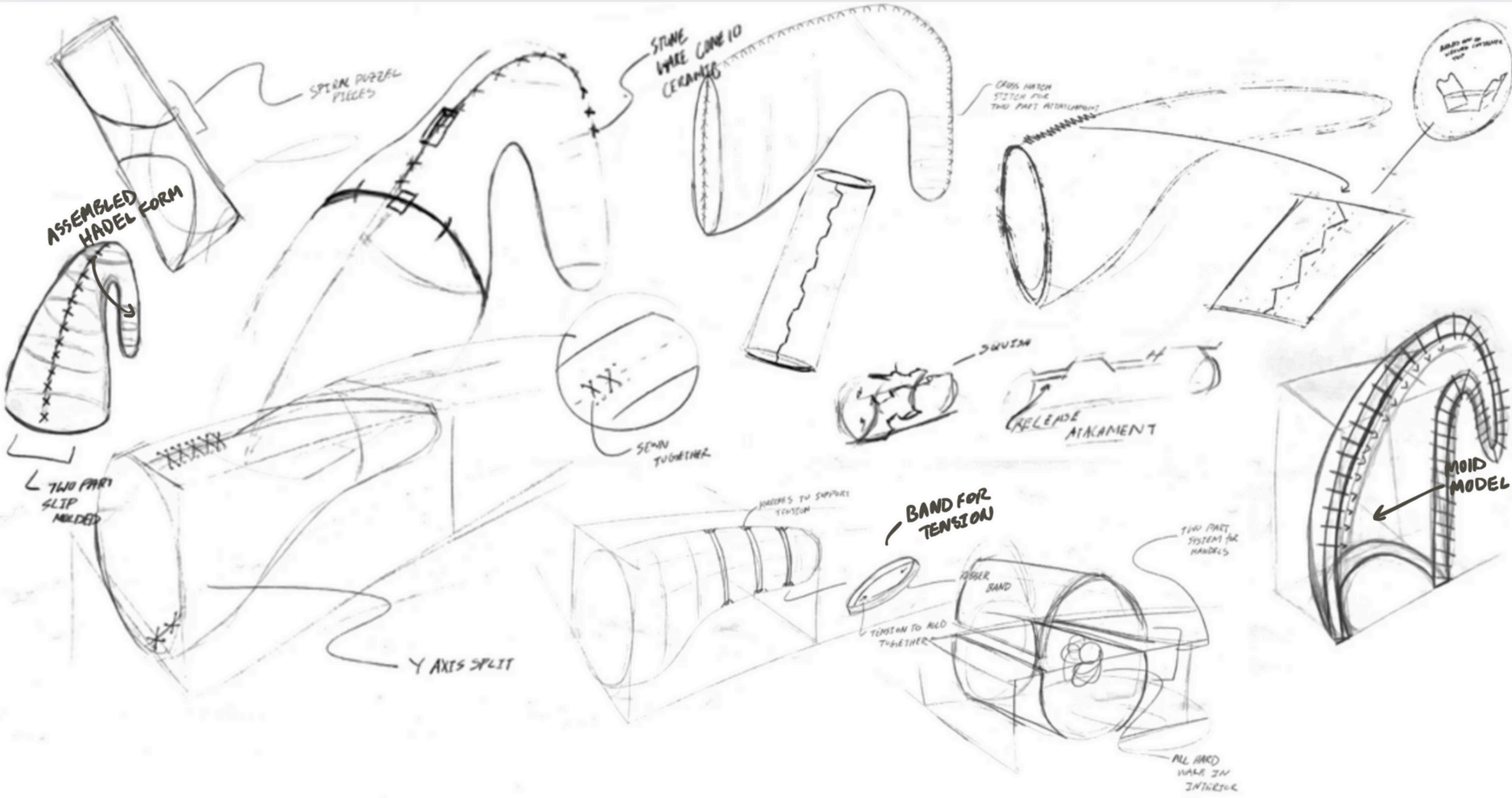
MATERIAL





BYRAM, KATE F, ANDRZEJ, HARRISON P	SU SCHOOL OF DESIGN	APRIL 10 2024
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STRAHM, KATE F, ANDREZ F, HARRISON P	SU SCHOOL OF DESIGN	APRIL 10 2024
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SARDH MASON

SU SCHOOL OF DESIGN

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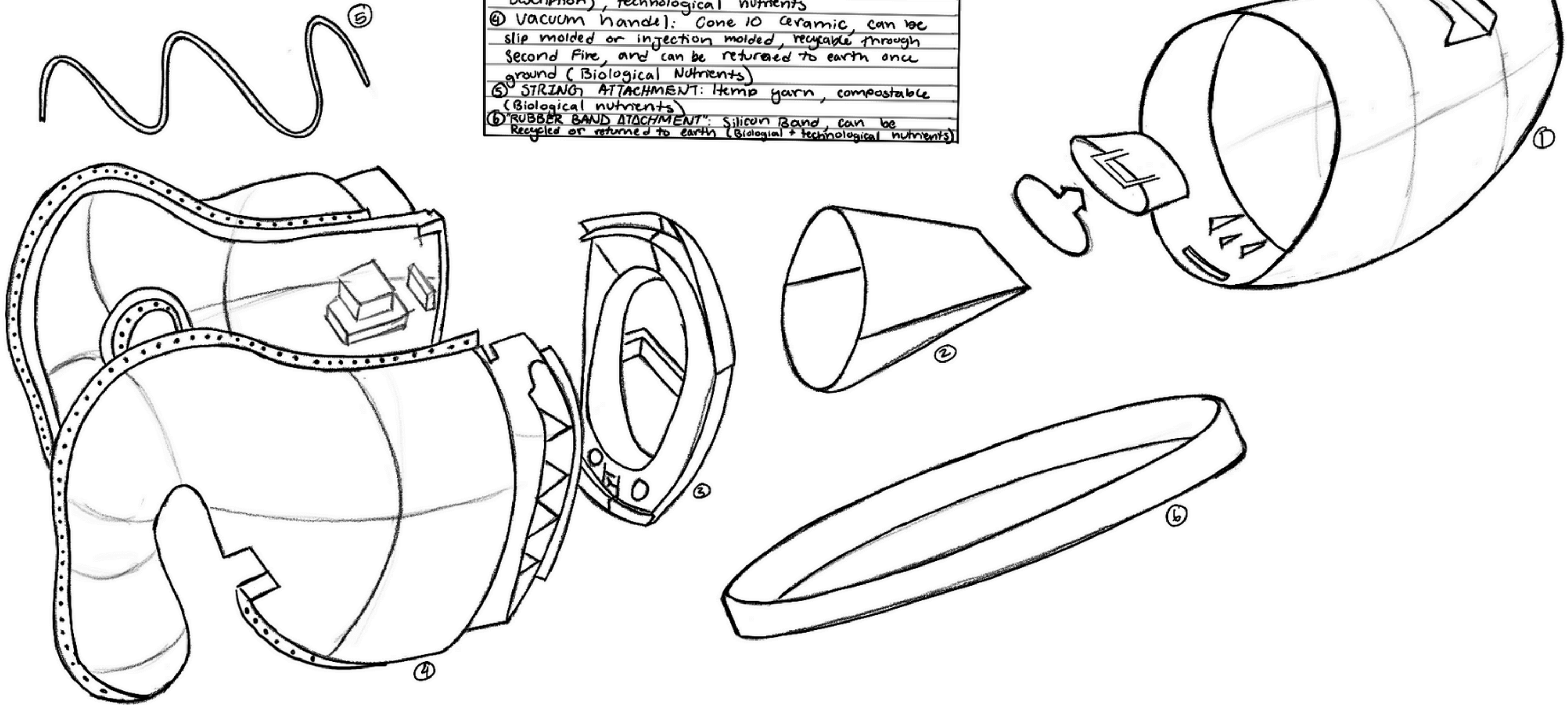
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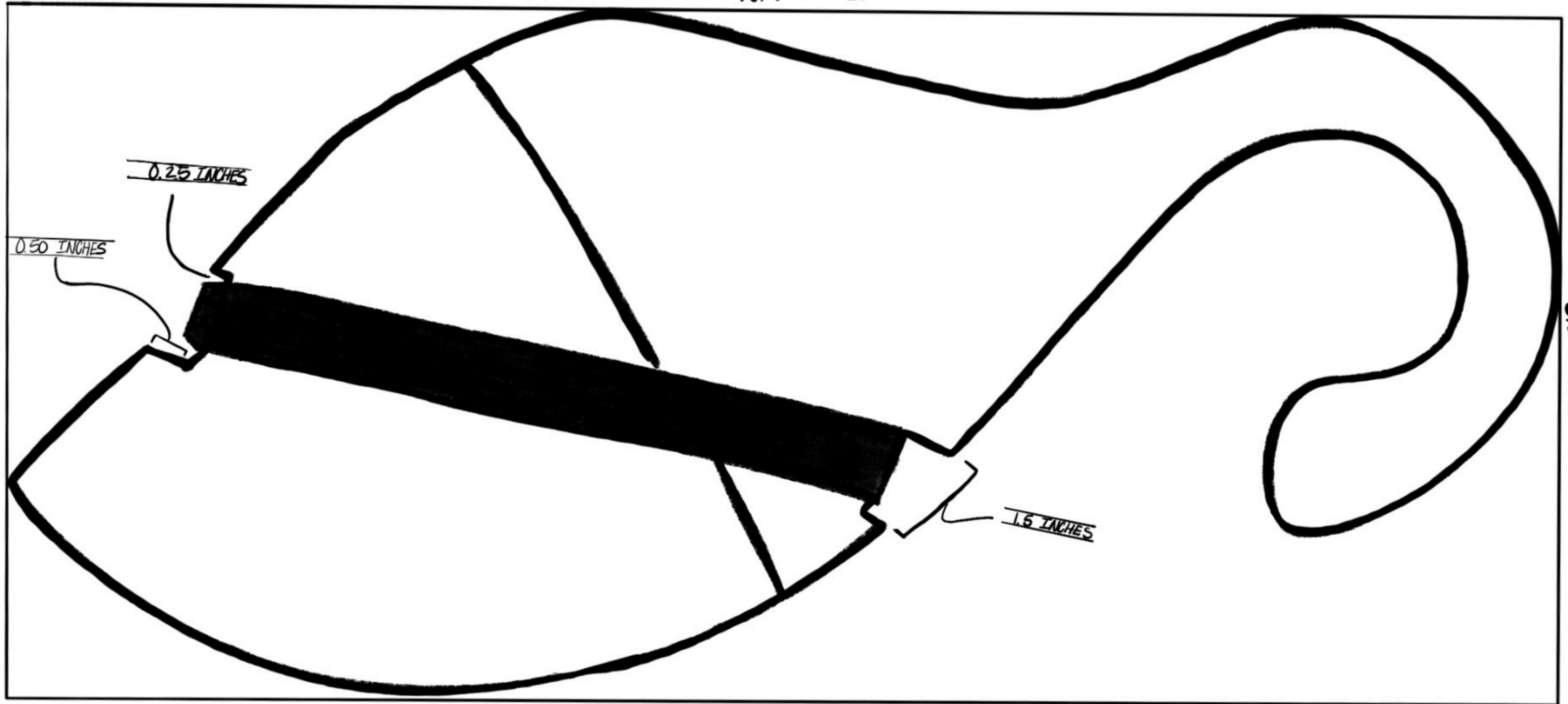
MATERIALS GUIDE

- ① VACUUM NOZEL: SMILE PLASTICS, CONSUMER Packaging and material waste is recycled and compressed into pellets for injection molding (technological nutrients)
- ② FILTER: made of paper, recyclable! (technological nutrients)
- ③ FILTER HOLDER: SMILE PLASTICS (SEE above Description), technological nutrients
- ④ VACUUM HANDLE: Cone 10 Ceramic, can be slip molded or injection molded, recyclable through Second Fire, and can be returned to earth once ground (Biological Nutrients)
- ⑤ STRING ATTACHMENT: Hemp yarn, compostable (Biological nutrients)
- ⑥ RUBBER BAND ATTACHMENT: Silicon Band, can be Recycled or returned to earth (Biological + technological nutrients)



SIDE

16.7 INCHES



5.2 INCHES

SARAH MASON

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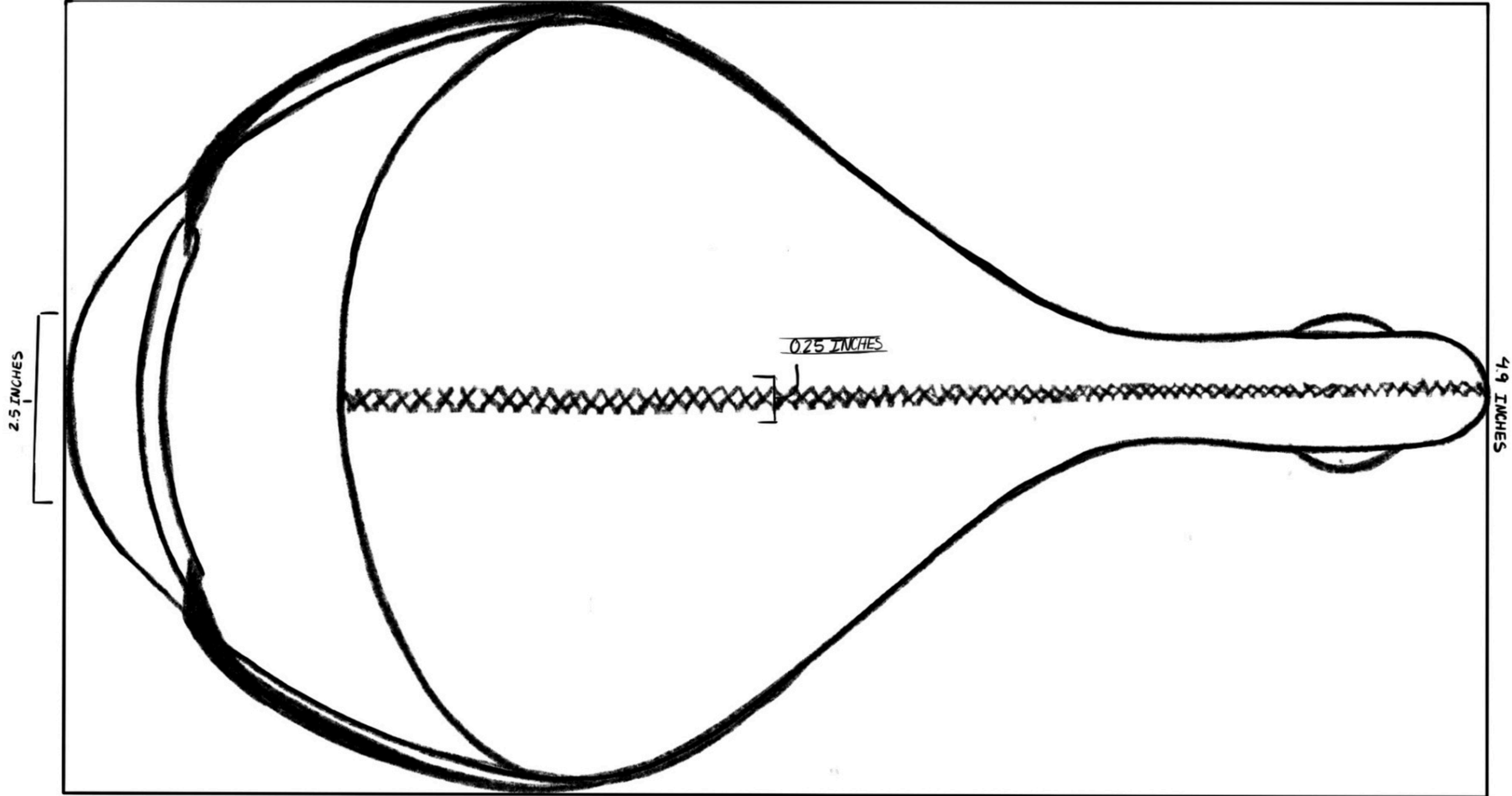
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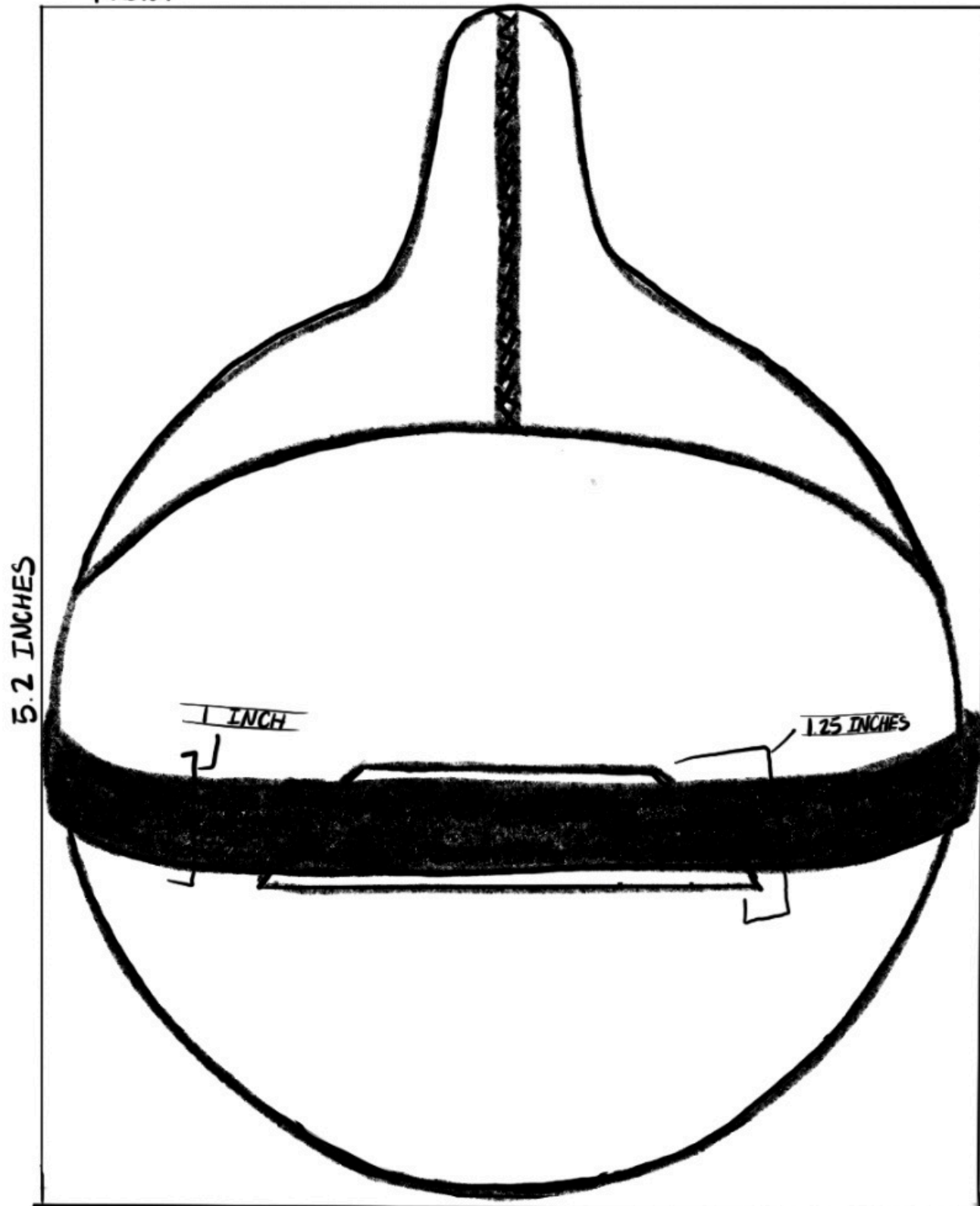
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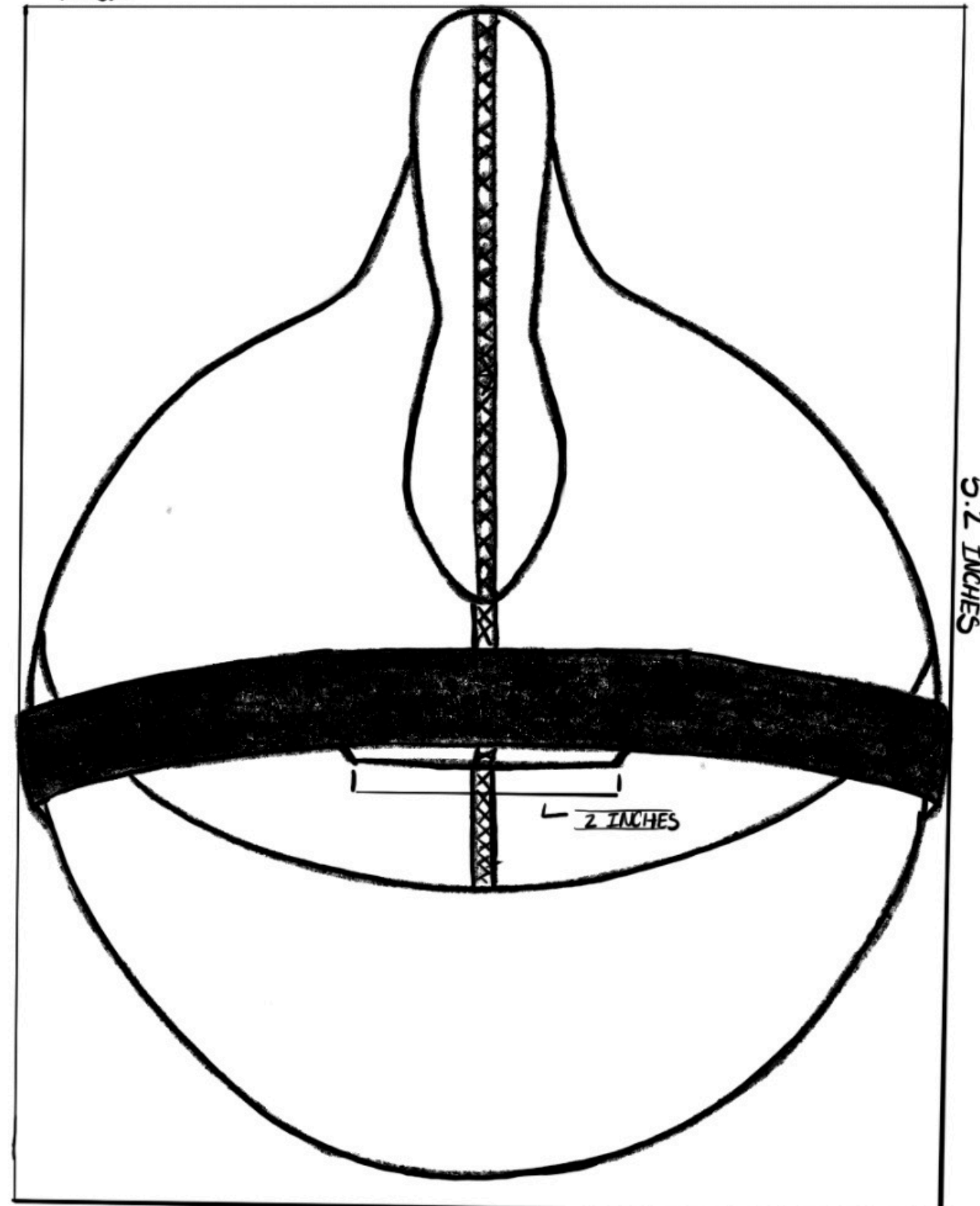


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FRONT



BACK



SORAH MASON

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MATERIAL FOR THE VACUUM NOZZLE SMILE PLASTICS

PROS:

MADE FROM CONSUMER WASTE OF PLASTICS AND PACKAGING.

CIRCULAR PROCESS- ANY WASTE PLASTICS GENERATED DURING MANUFACTURE AND CUTTING ARE RETURNED TO THE BEGINNING OF THE PROCESS

THE PANELS ARE BUILT FOR LONGEVITY AND ARE 100% RECYCLABLE OR CAN BE RETURNED TO THEM AND REMADE ALL OVER AGAIN

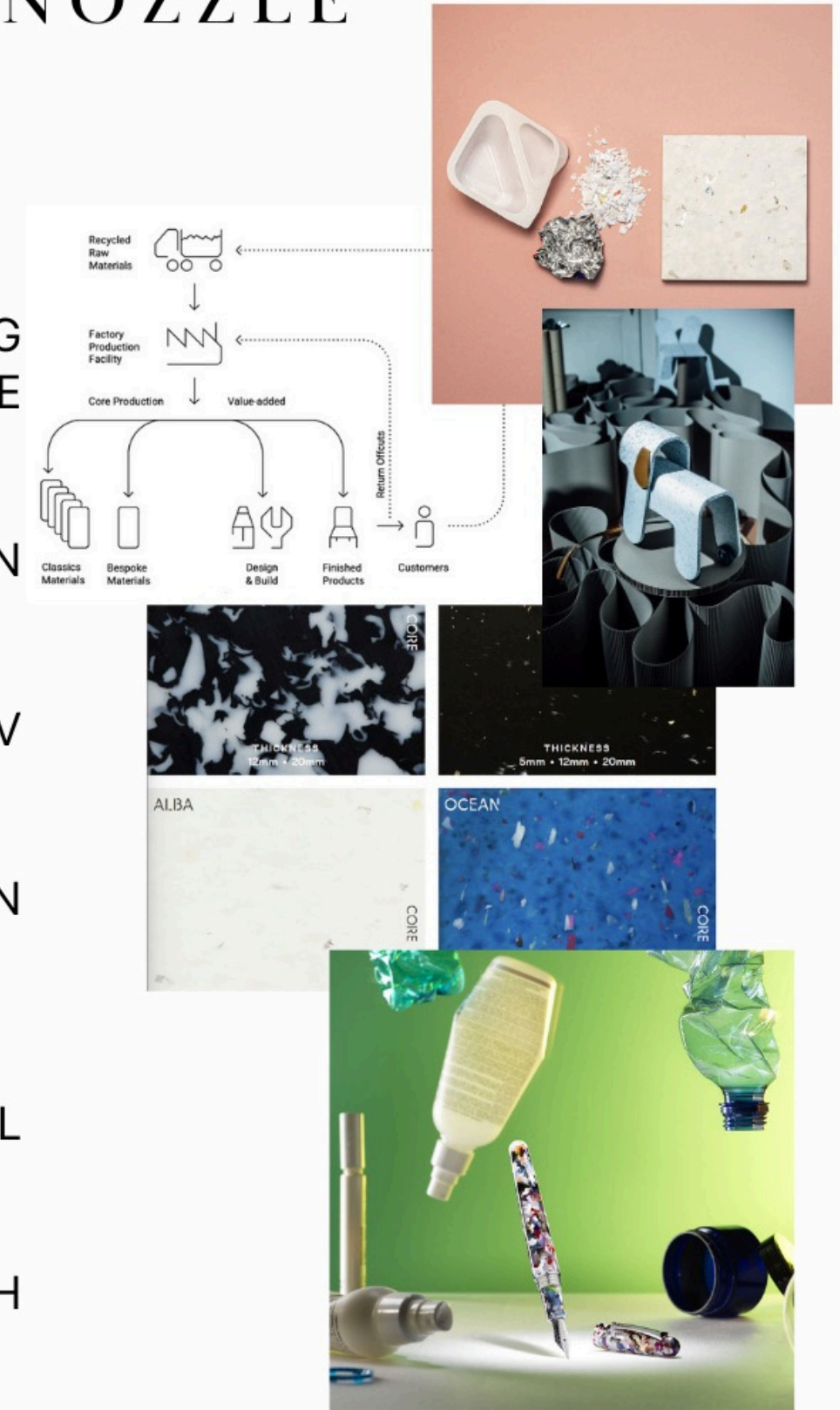
100% WATERPROOF, AND WITH THE CUSTOM ORDER CAN MAKE IT FLEXIBLE, UV RESISTANT AND WEATHER AND FIRE RESISTANT.

CAN BE HEAT-FORMED INTO SHAPES-BECAUSE IT NORMALLY COMES IN PANELS

CONS:

THE MATERIAL WILL NOT ALWAYS LOOK THE SAME/ THE RAW MATERIAL MAKES THE SHEET UNIQUE EVERYTIME

THE COMPANY PRODUCES SHEETS OF PLASTIC HOWEVER YOU WORK WITH THEM FOR A CUSTOM MANUFACTURING SHAPE/ MATERIAL



MATERIAL FOR VACUUM HANDLE

CONE 10 STONEWARE

PROS: INCREIBLY DURABLE,
RECYCLABLE THROUGH SECOND
FIRING, HEAT RESISANT, FIRE
RETARDANT, WATER RESISTANT,
CAN BE SLIP MOLDED (AT
PRODUCTION LEVEL) SAME AS
PLASTIC INJECTION MOLDING

CONS: 20% SHRINKAGE RATE, NON-
RECYCLABLE AFTER SECOND
FIRING, MORE EXPENSIVE THAN
PLASTIC



MATERIAL FOR “RUBBER BAND”

SILICONE

PRO: EXTREMELY FLEXIBLE,
NATURALLY DERIVED,
RECYCLABLE, RETURNS TO
NATURE OVER TIME, FOOD SAFE,
WATERPROOF, HEAT RESISTANT,
CHEAP, CAN BE INJECTION
MOLDED OR SHEET MOLDED

CONS: MUST BE DOWNCYCLED,
TAKES LONG TIME TO
BIODEGRADE



MATERIAL FOR STICHING

HEMP YARN

PROS: ROT RESISTANT, HIGH
TEXTILE STRENGTH,
BIODEGRADABLE, CAN BE ALTERED
IN THICKNESS AND COLOR,
CHEAP, NATURALLY DERIVED, NO
STRECH

