Umbrella DESIGN

BRIEF

Looking into creating a device that utilizes the functionality of an umbrella while improving the overall experience for the user.

PRODUCTS





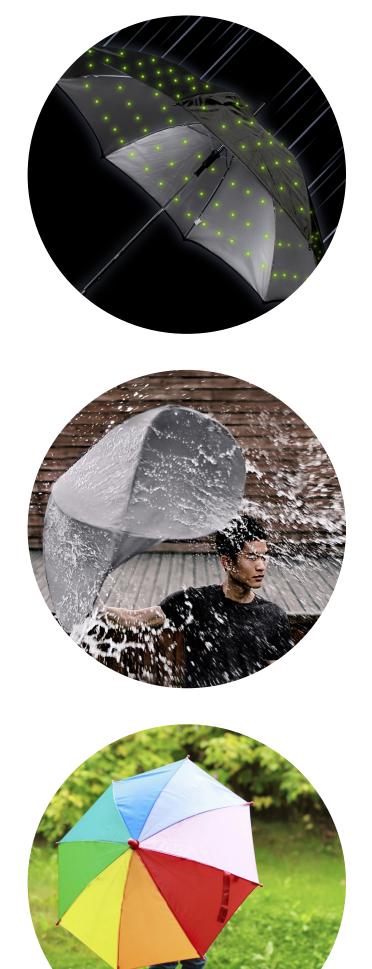






PRODUCT PROS

- Keeps you dry
- User friendly to an extent
- Ergonomically appropriate
 - Protects against UV light
- Affordable to functionality
 - Size availability







PRODUCT CONS

You get wet when you get in the car

- Ribs bend and break
- Retains water over time
- The wind blows it inside out
- Tip of umbrella wears down/off
- Handles are not ergonomically correct
 - Fabric comes undone
 - Fabric fades



THE NEPALI UMBRELLA

Unique in that it is held on with a head strap that enables them to have their hands free while working in the rain.

They use these during the monsoon season when they plant their rice.

They are made of woven bamboo reeds with a piece of plastic sheeting sandwiched in the middle.

CONCEPTUAL PRODUCTS

CONCEPTUAL PRODUCTS

Form

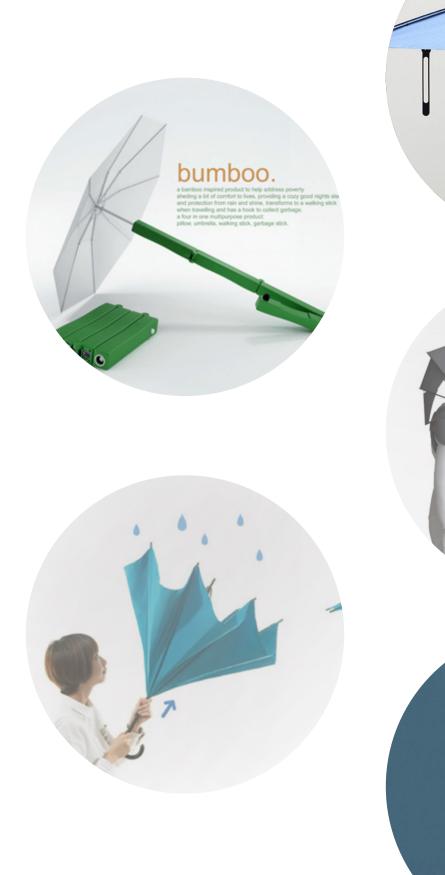
Materials

Possibilities of function

Dispersion of water

Innovative

Structure









ISSUED PATENTS





Locking mechanisms

Materials

Processes

Telescope

Collapsible

Flaring

Grips

Similar functions

Spring Assist

SEQUENCE OF USE

SEQUENCE OF USE

Carrying through the store

Velcro not sticking

Tips of wire canopy hitting the hand

Handle not being big enough

Velcro strap dangling

When getting in the car water gets all over you as well as the interior of the car

Where does live in the car?











SEQUENCE OF USE

Button to open and close

Button to open

No button, manual

45" long, 5' in canopy diameter

6" long, 34" in canopy diameter

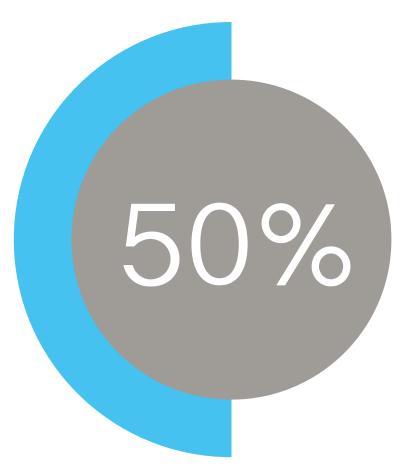
Different handles that feel different in the hand

No umbrella has a button to close all the way

All umbrellas are hard to close when getting in a car



QUESTIONNAIRE



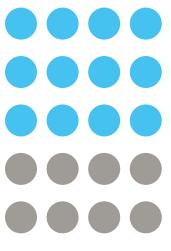
Of people like a short compact umbrella

62% person umb one person

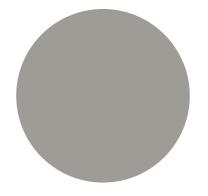
Some of the concerns that were found in the questionnaire concerning "the number one problem with your umbrella?"

- Carrying it around once the rain has stopped
- Wind folds it inside out
- Gets wet when getting in the car
- Velcro wears out

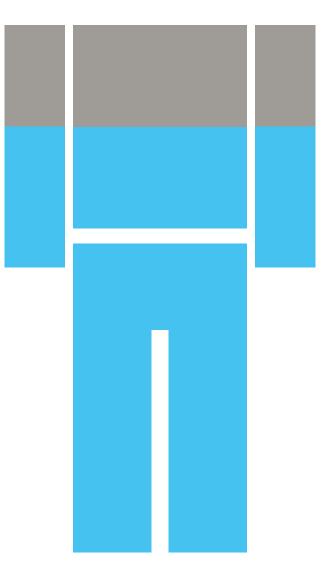
Of people prefer a two person umbrella over a







Over HALF of people answered the question "Where do you store your umbrella?" With "In the car".



Other Answers

- Hung on a door knob
- Leaned up in a corner
- Book bag
- Floorboard



PICTURE BOARD



PRODUCT DIRECTION

PRODUCT DIRECTION

- Keep you dry

- Keep you dry while getting in the vehicle

- Storage
- Durability
- Ease of use
- Light weight

- Stability

- Sustainable

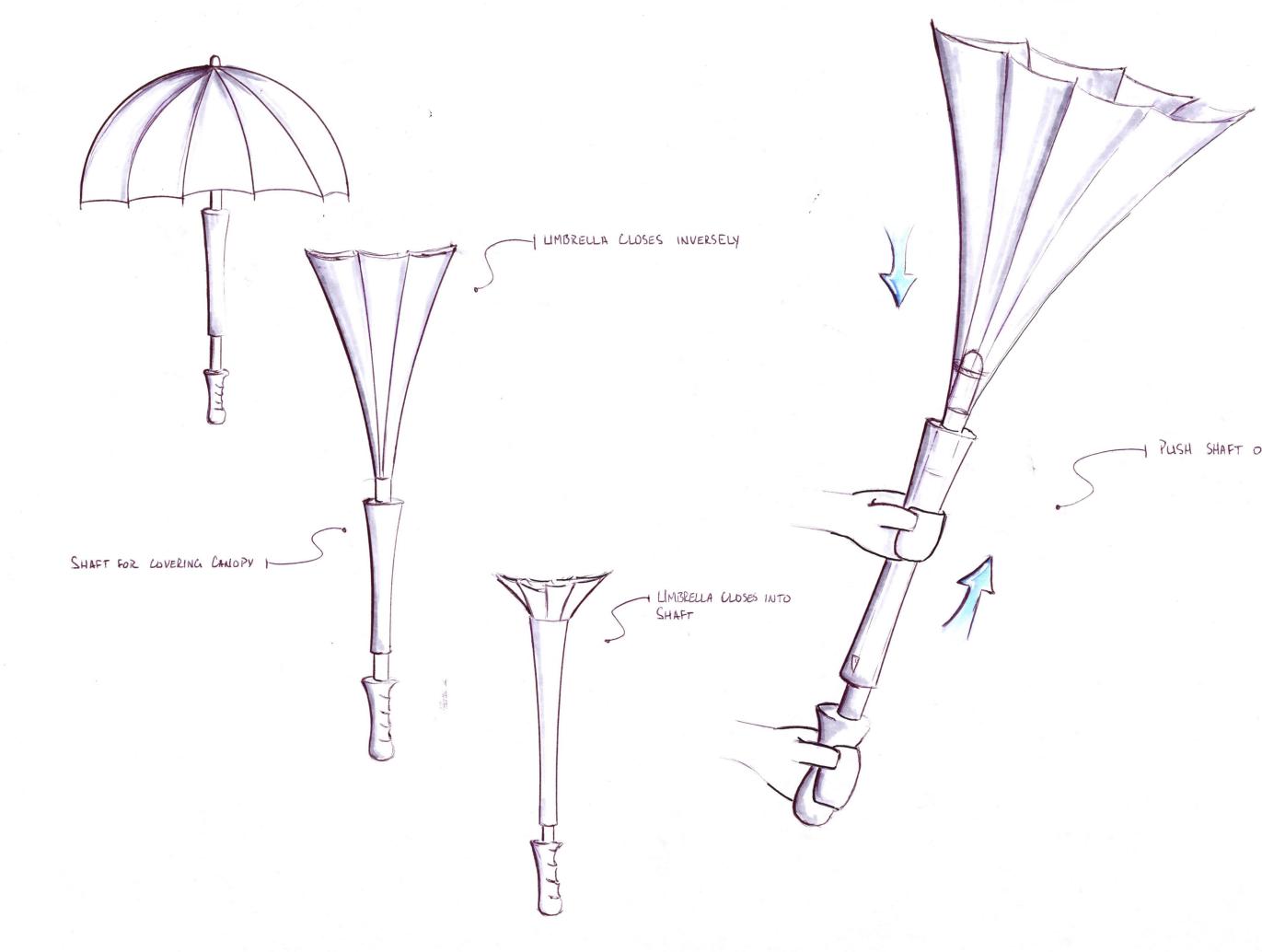
- Appropriate materials

- Mobility

- Collapsible

- Ergonomically appropriate

PRELIMINARY SKETCHES



PUSH SHAFT OVER CANOPY

