

SOUND TEXTURIZER

DN1007 Foundation 3D II

Amelia Yuliana
U1630490L
G5

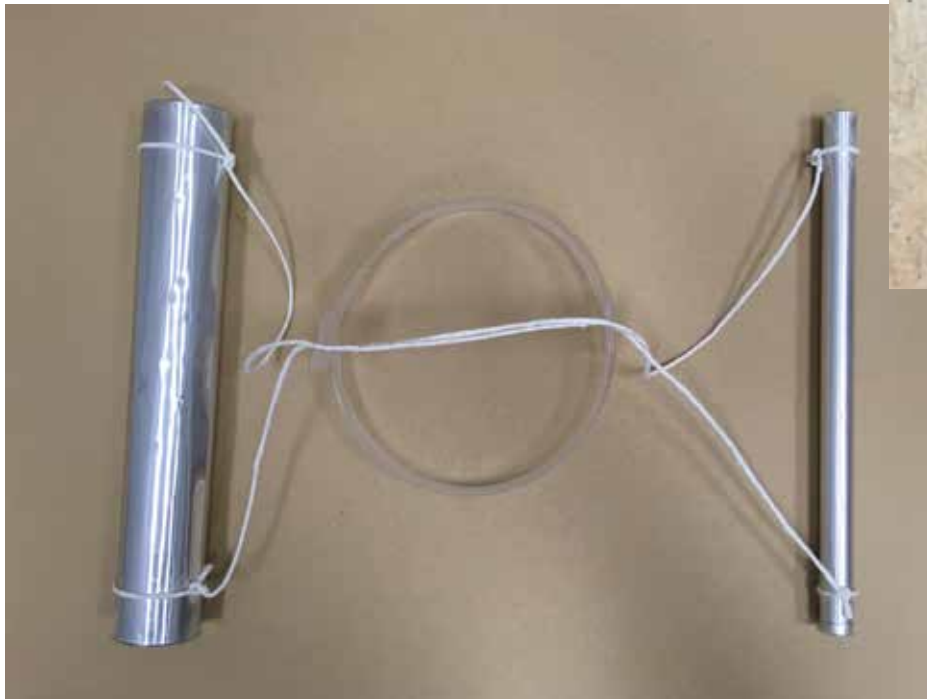


RAIN FALL`

a wearable surround sound experience for rain. —



— how the user wears the sound texturizer.



Doppler Effect

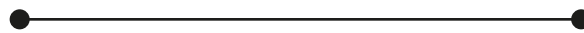
an increase/decrease in the frequency of sound waves as the source and observer move towards/away from each other.



surround sound part, as one rainfall is louder and nearer than the other .

Euterpe

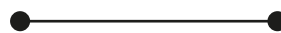
"delight" in Greek.



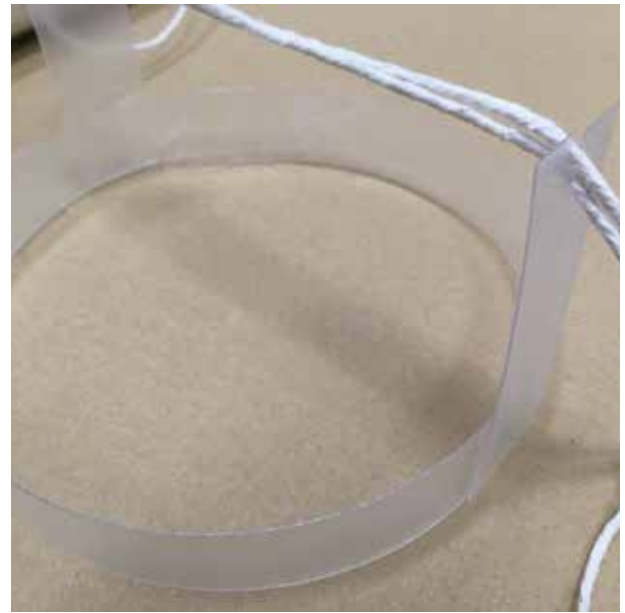
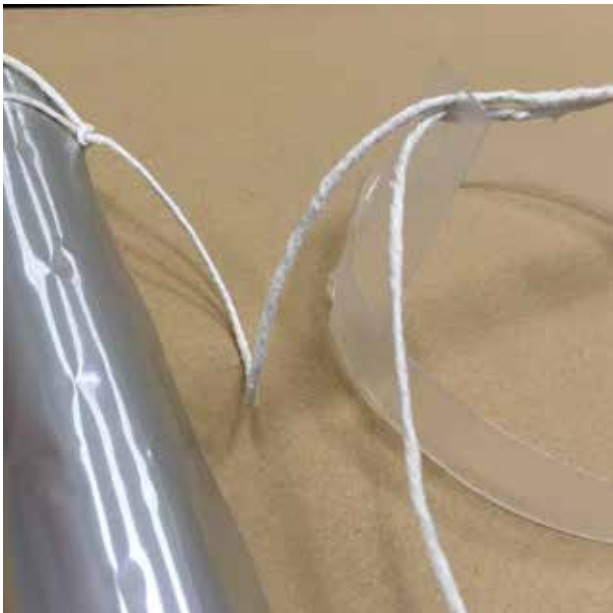
pleasant comforting sound of rain.

Tympanic Membrane

a membrane forming part of the organ of hearing, which vibrates in response to sound waves.



placed right next to both ears, each ear interpret different loudness.



How does it work?

The two aluminium tube **varies in the diameter**, which allows more sago seeds to flow through one of the tubes more. **Wider surface area** would mean that the rain sound becomes more **louder** and vice versa.

Tension from the strings attached to the helmet like structure will allow the tubes to **tilt near the ears** and experience the softer and louder **surround sound** element.

Big Application

Musical see-saw for children to play with in the playground. It becomes a playful orchestra as the children slides and create a rain symphony!





Small Application

Baby crib toy, so it will sooth the baby to sleep with the sound of rain or the baby can also play with it.

Improvements

1. Making the structure of the helmet longer and more sturdier and use wires instead of strings.
2. Make more ranges of the mettalic tubes so there's more variety of loudness.
3. Maybe make a mechanism where it allows itself to self tilt.