

[https://lucid.app/lucidchart/ed0426c7-2ded-41ac-b7e7-ba5483707aad/edit?invitationId=inv\\_3f7b588a-9d59-4f9e-a579-f7de81b61da9](https://lucid.app/lucidchart/ed0426c7-2ded-41ac-b7e7-ba5483707aad/edit?invitationId=inv_3f7b588a-9d59-4f9e-a579-f7de81b61da9)

Primary function: Open the door hands free

### **Secured to the door**

Retro Compatibility(versatile attaching mechanism)

Simple installation

Resists Removal

Resists deformation

### **Easy User interface**

Compatible with hand based door opening

Can be opened by handicap persons

Obvious how to use

Flush with the ground so that people in crutches or wheelchairs can use it

Comfortable to use

Clear functionality

### **Full Door Functionality**

Able to completely open door

Can be opened from both sides

Closes on its own after opening

Adjustable time to open/close

### **Customizability**

Customized pedal location or whatever trigger it

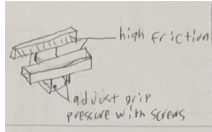
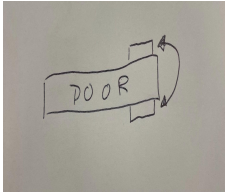
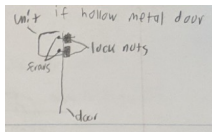
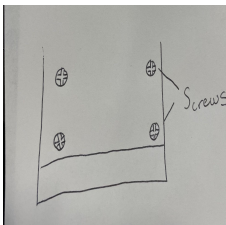
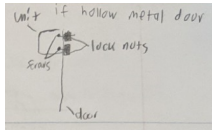
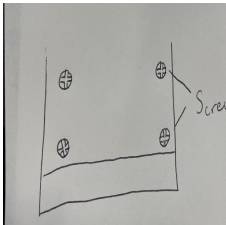
Adjust for handicap or not

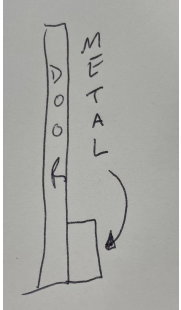
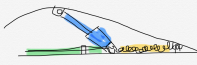
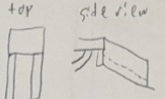
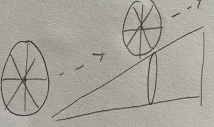
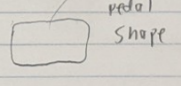

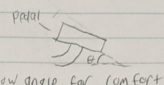
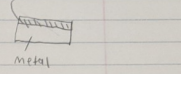
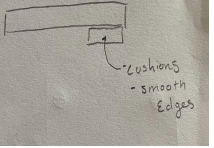
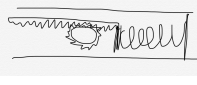
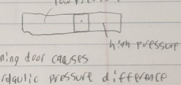
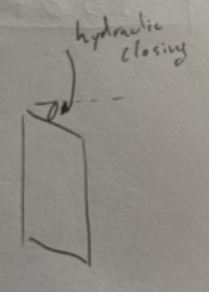
### Force transformation

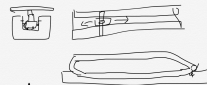
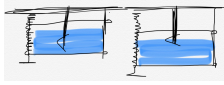
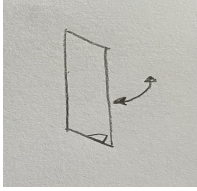
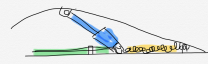
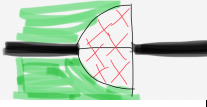
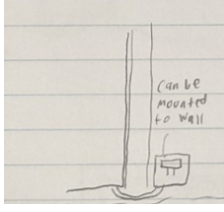
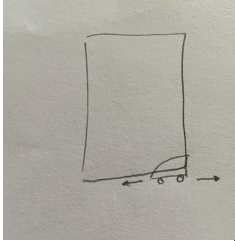

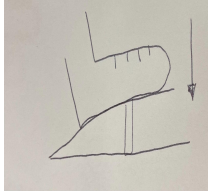
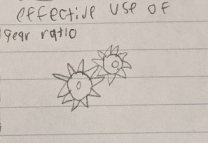
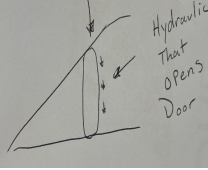
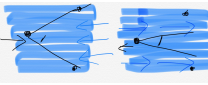
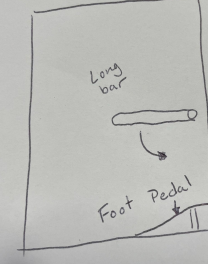
opened by applying downward force

Efficient use of applied force

Does not take excessive force(both foot and hand operated)

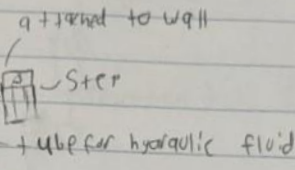
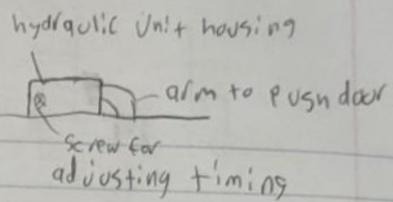
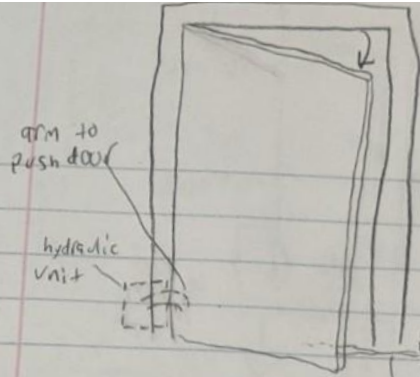
Morphological Chart				
Functions	1.	2.	3.	4.
Retro Compatible				
Simple Installation				
Resists Removal				

<p>Resists Deformation</p>				
<p>Can be opened by handicapped persons</p>		<p>top side view</p>  <p>wide enough for wheel chair</p>		
<p>Obvious how to use</p>	<p><b>STEP ON ME</b></p>	<p>clear pedal shape</p> 		
<p>Comfortable to use</p>	<p>pedal</p>  <p>low angle for comfort</p>	<p>softer material like rubber</p>  <p>metal</p>		 <p>cushions - smooth Edges</p>
<p>Closes on its own after opening</p>		<p>low pressure</p>  <p>opening door causes hydraulic pressure difference</p>		<p>hydraulic closing</p> 

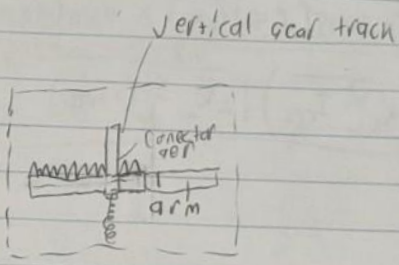
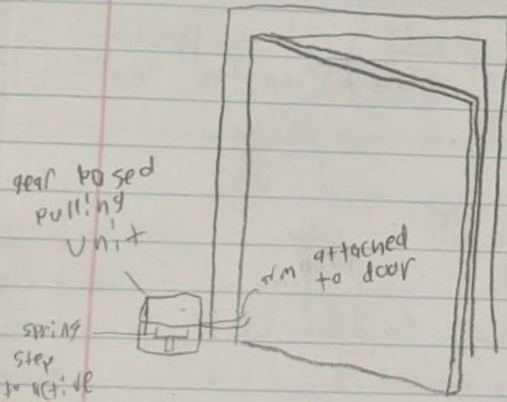
Adjustable time to open/close				
Customized pedal location				
Opened by applying downward force				
Efficient use of applied force				
Does not take excessive force(both foot and hand operated)				



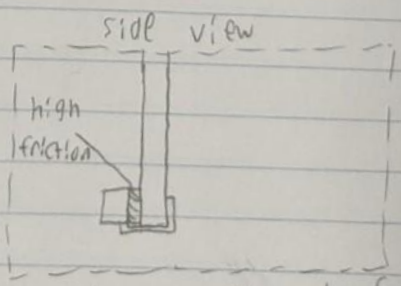
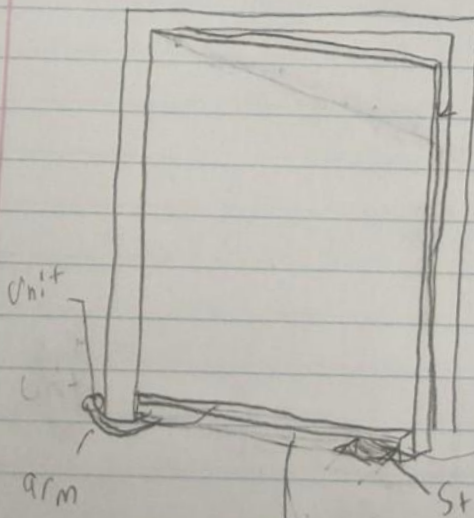
FIVE STAR  
★★★★★



DIAR  
★★★★★

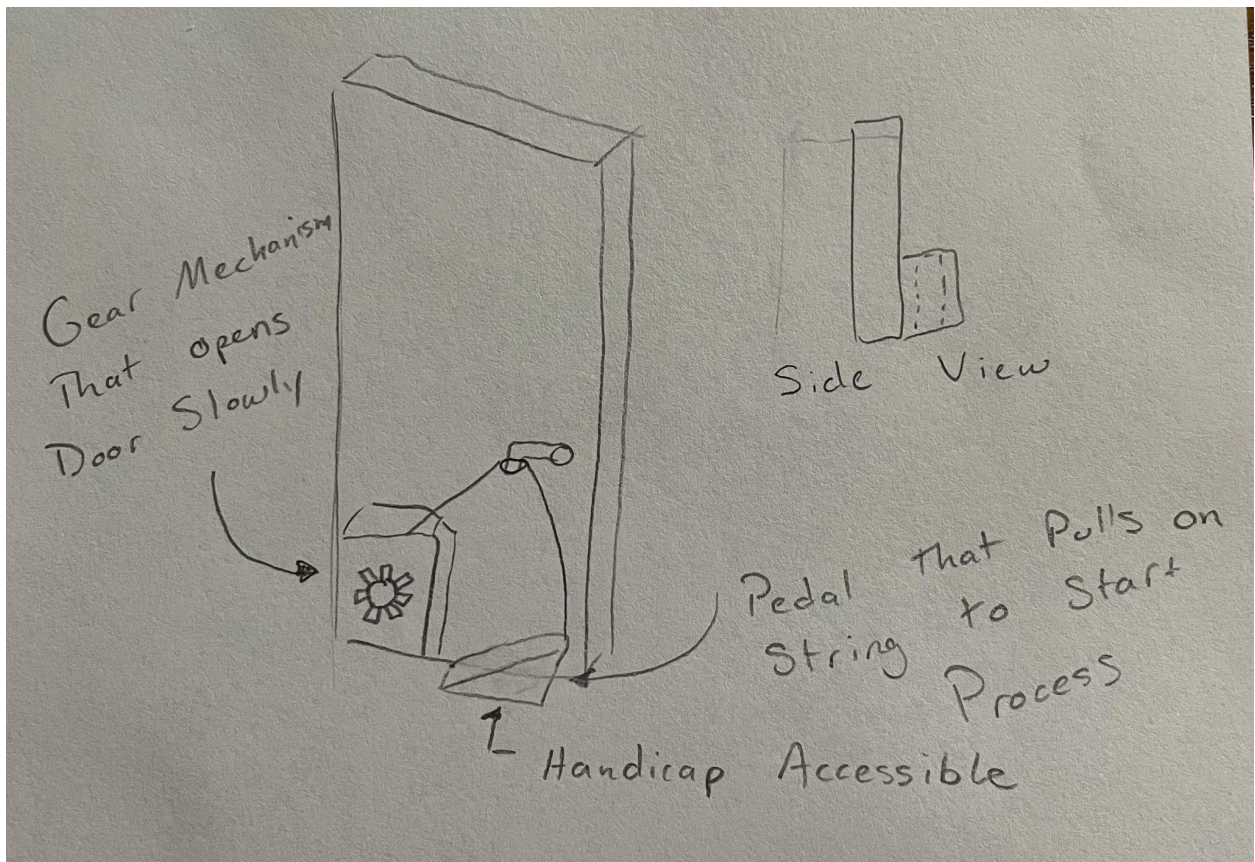
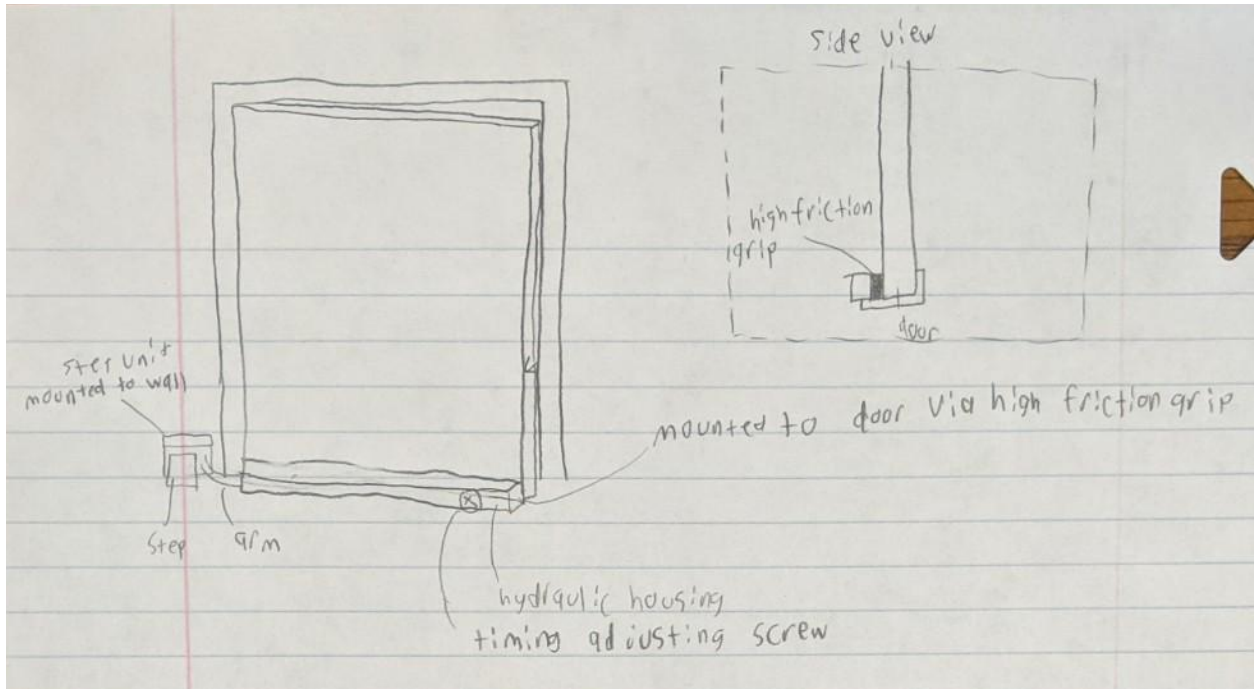


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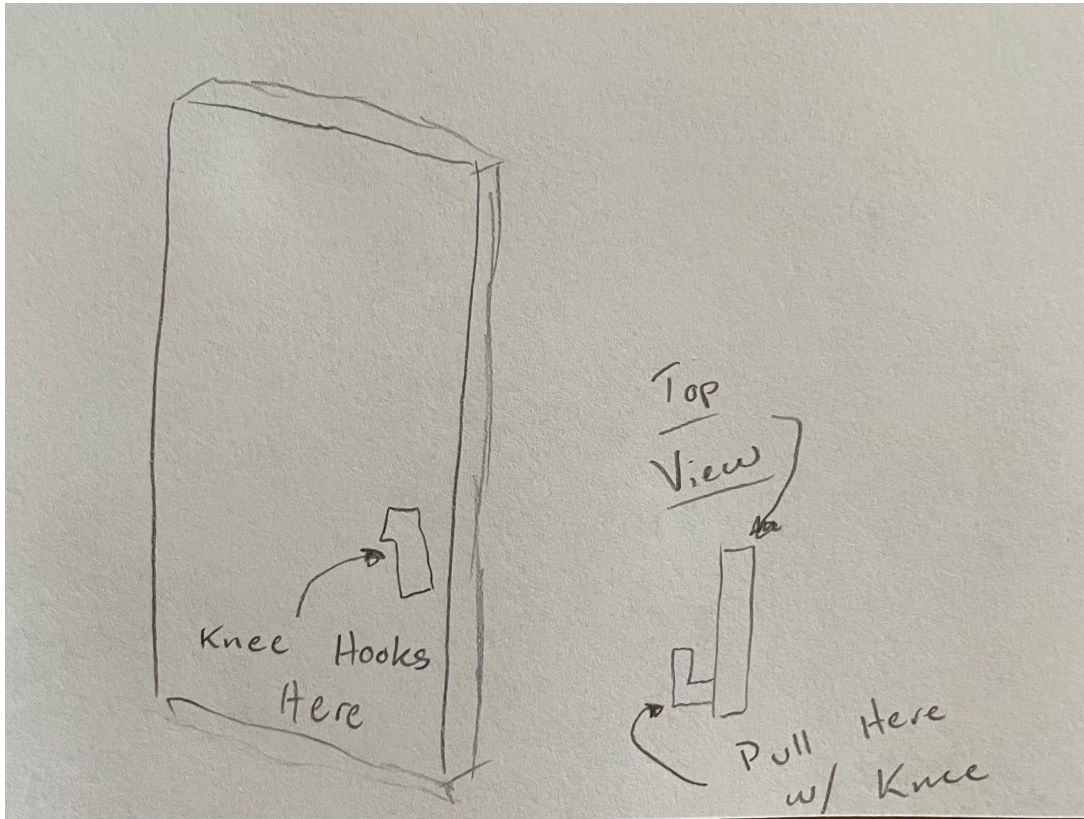
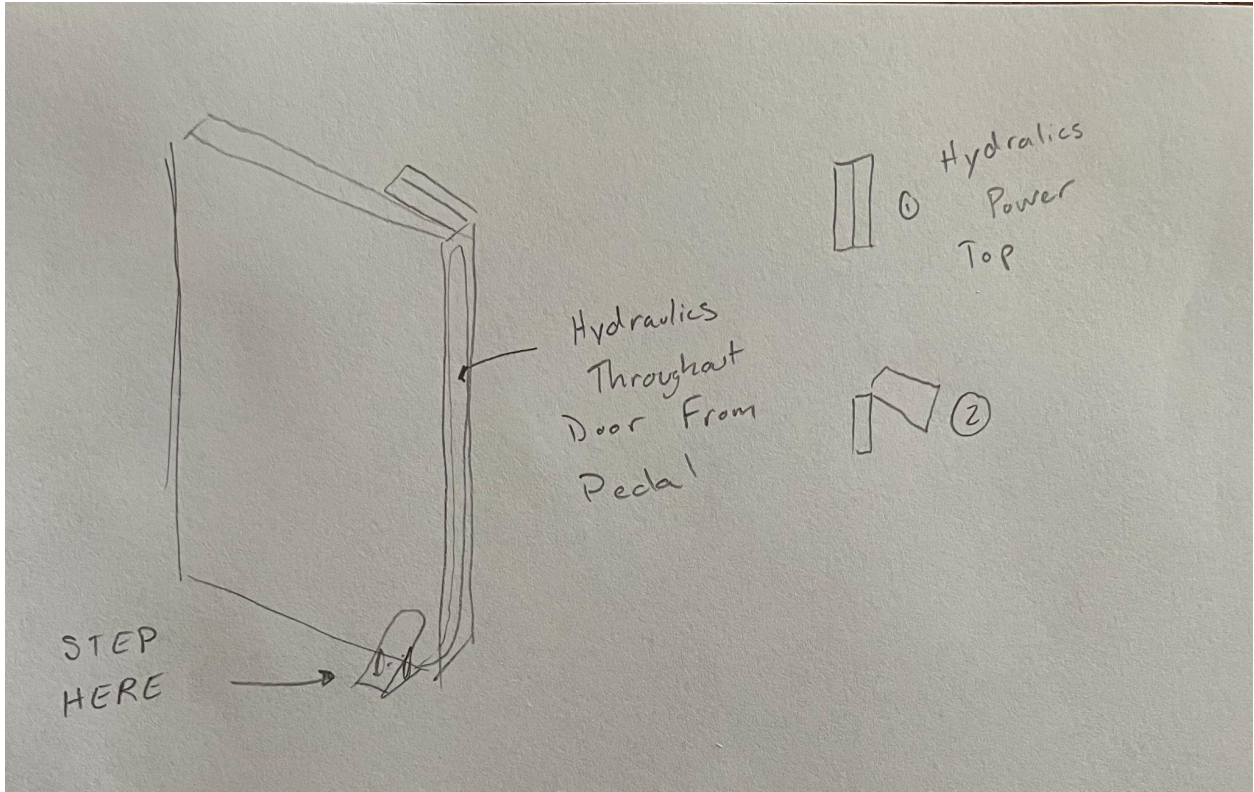


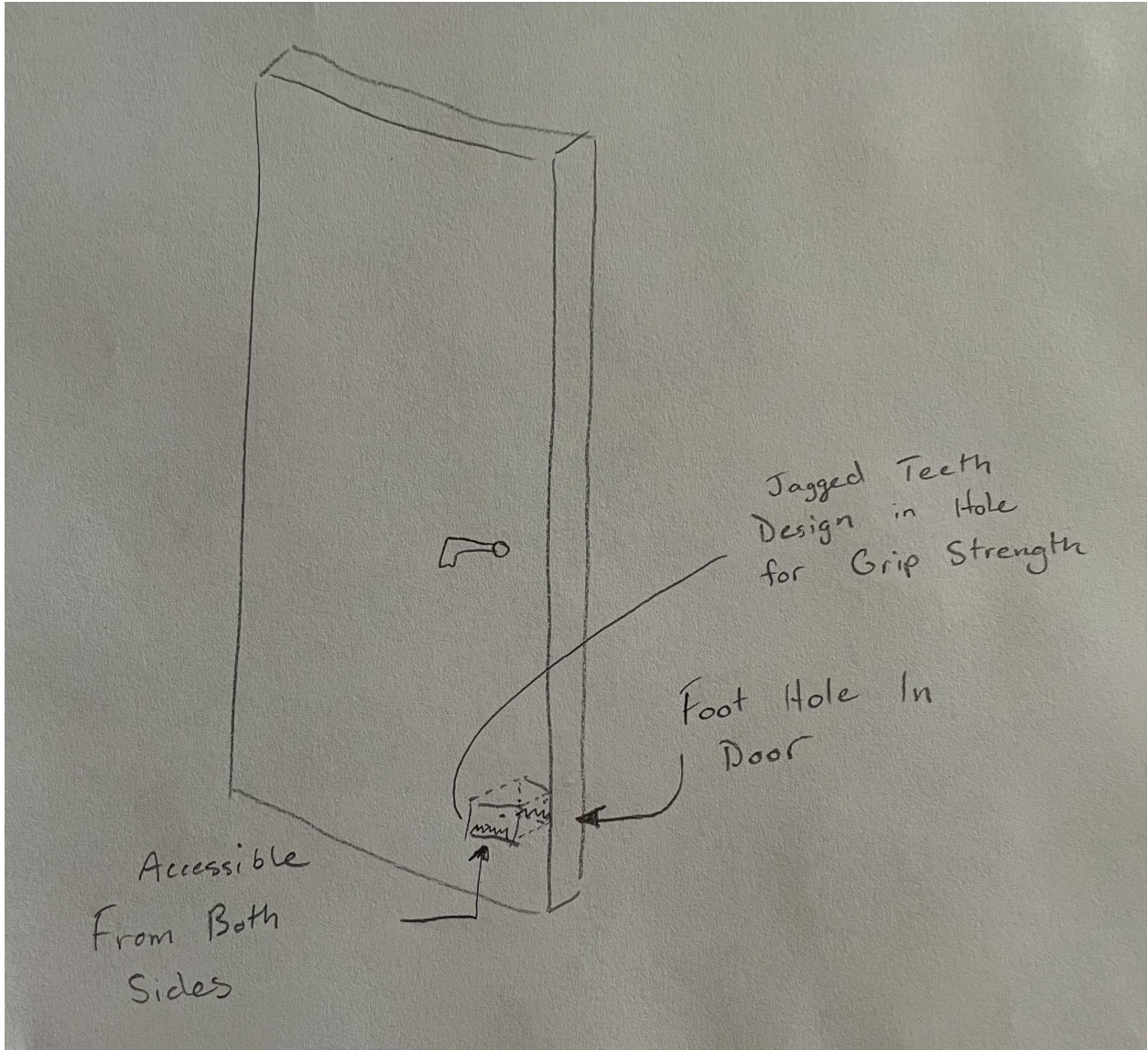
mounted to door via high friction grip

internal hydraulics roll door







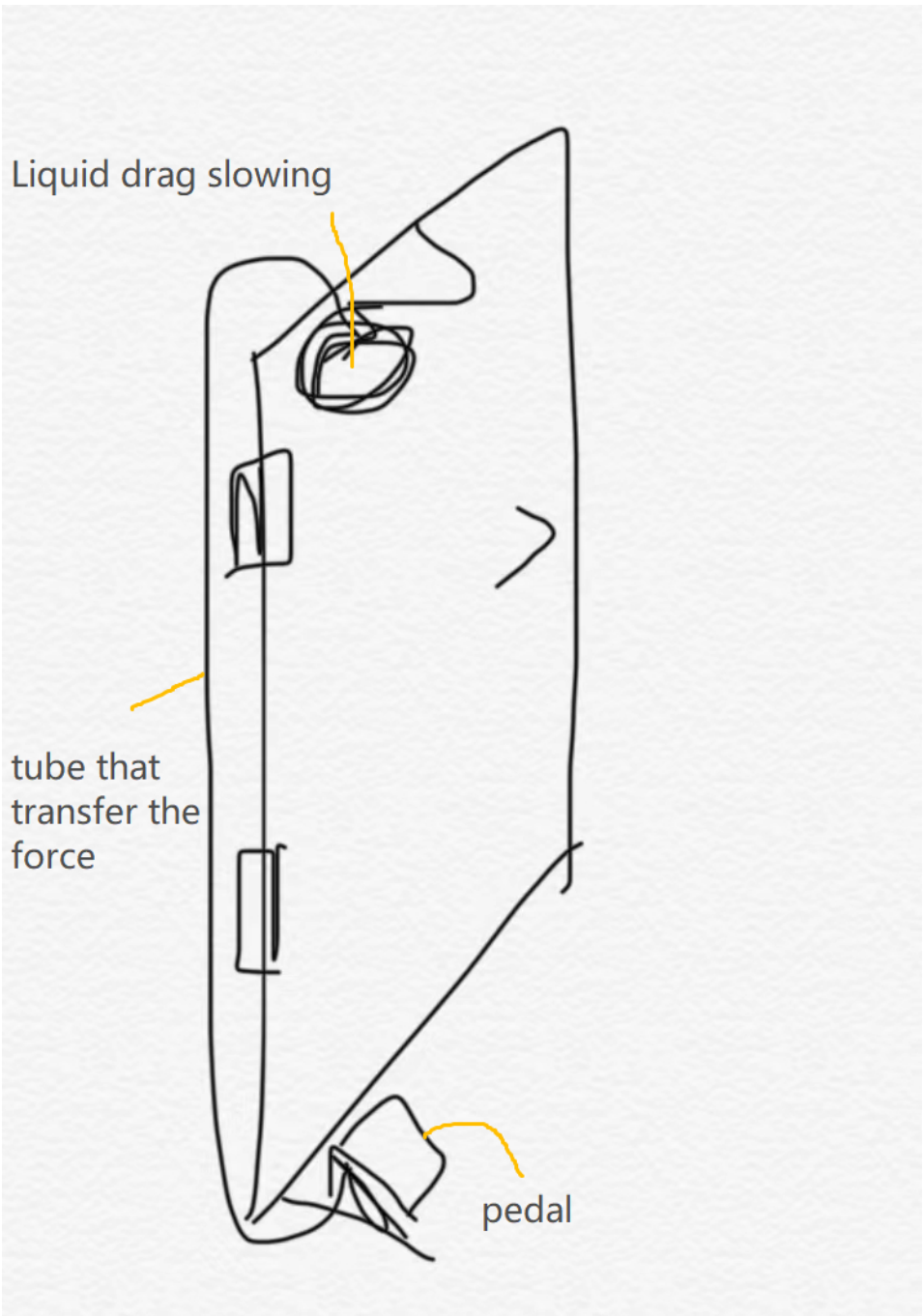




Liquid drag slowing

tube that transfer the force

pedal



Lenz Law slowing

tube that transfer the force

pedal

