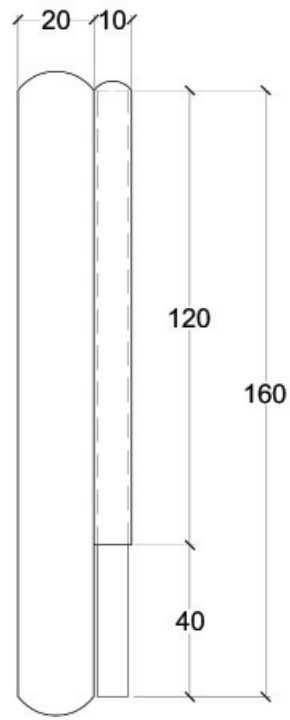
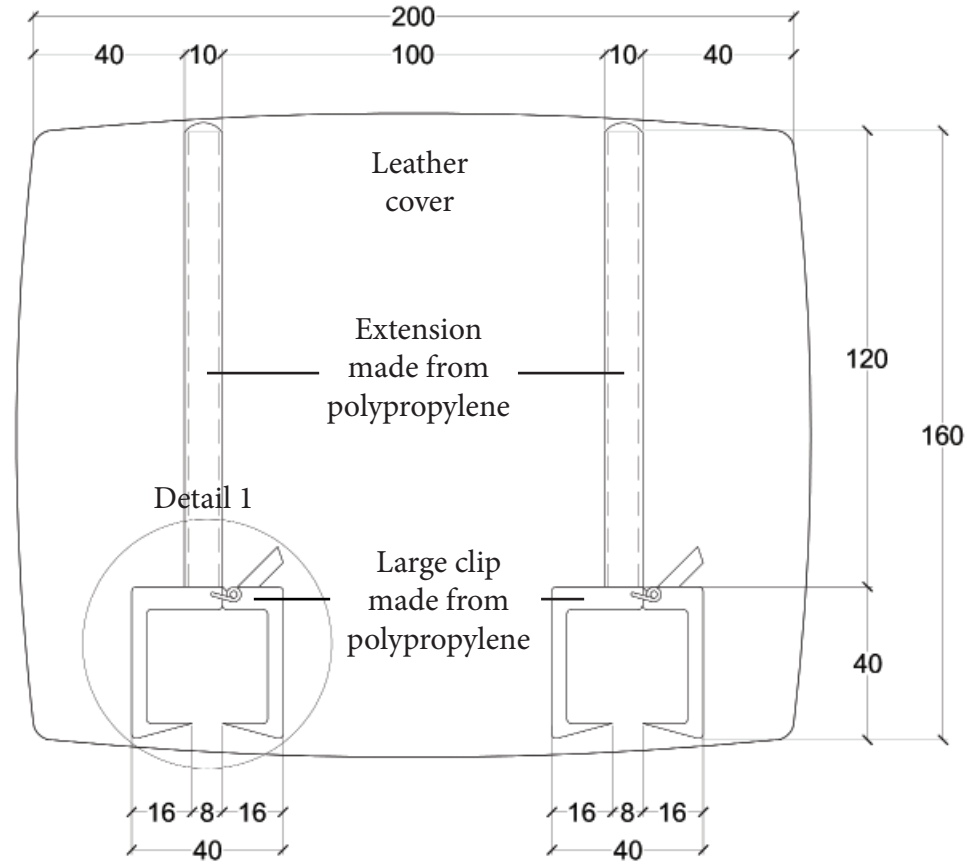


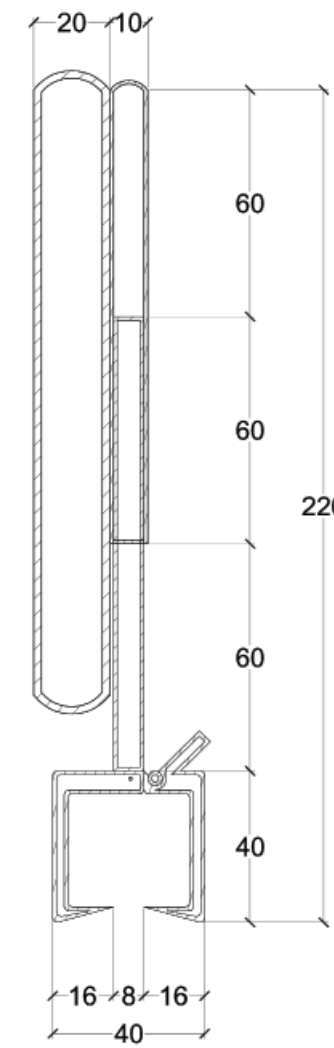
Detail 1
(Scale 1:1)



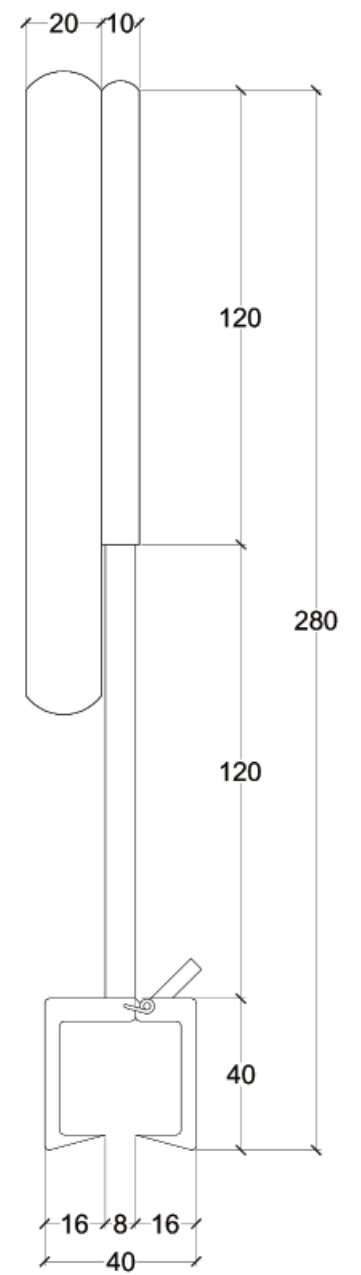
Side Elevation
when putback



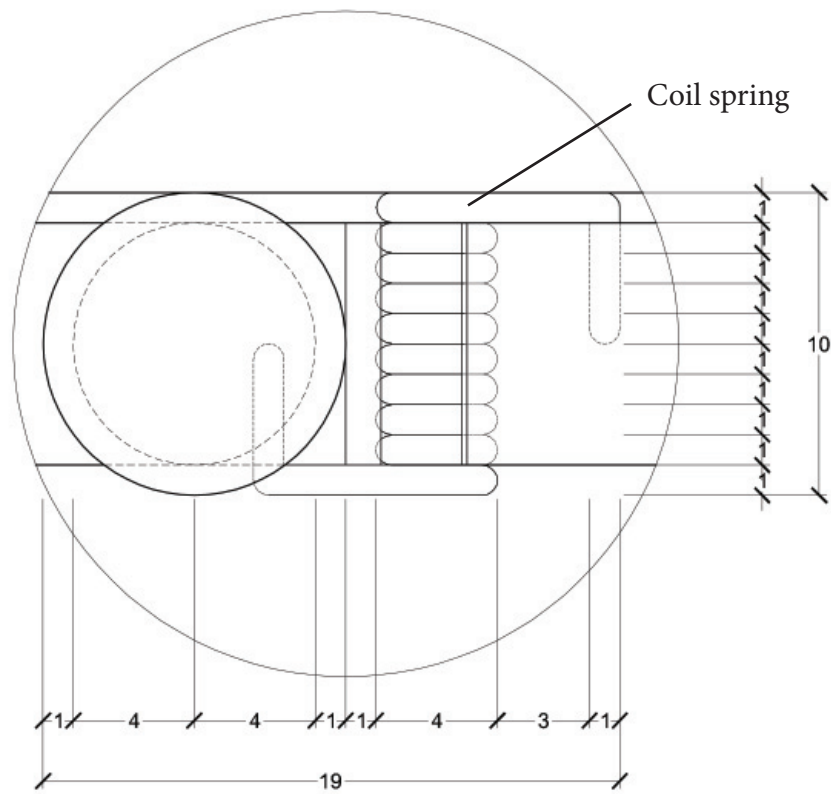
Back Elevation



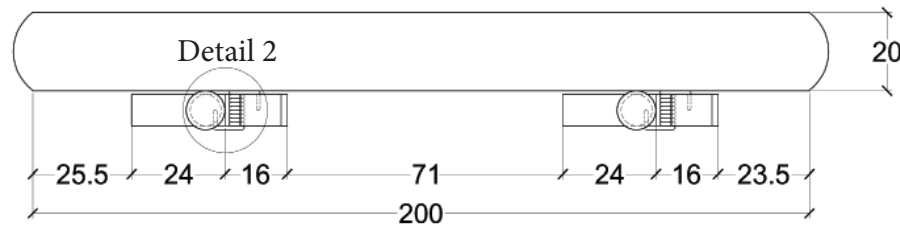
Section



Side Elevation
when extended

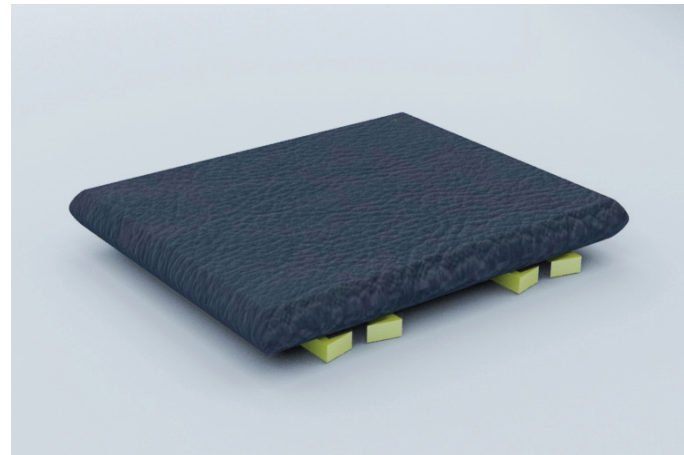


Detail 2
(Scale 4:1)



Plan

Project Name Portable Headrest	Designed by Gordon Wong Sy Hao	Assignment 3
	Scale 1:2	Part A
	Date 12/10/2014	



Have you been in the situation of not able to sleep while on the bus although you are tired? Isn't it frustrating when the only thing that you can do is just watching the same scenery outside every day? The problem will no longer exist with the newly invented portable headrest. It cannot be solved by using an inflatable headrest because the inflatable headrest needs support which the bus does not provide.

The portable headrest uses a clip mechanism to provide the support that is needed. Coil spring plays an important role in the mechanism as it enables the clip of the portable headrest to open and close. The use of coil spring comes from the clothes clip. Besides, the portable headrest has an extension that make it available to everybody. People who is taller

can extend the headrest to his comfortable position. The cover of the headrest is made from leather while the inside is filled with polyester as it is a cheap and light material. The extension and the clips are made from polypropylene to make the headrest portable and stable at the same time.

The original design of the portable headrest is shown on the bottom left image. It has an inflatable headrest attached to it to protect the passengers' neck. However, it also make the product more bulky and less portable. Therefore it is removed from the final design on the bottom right. The final design is also thinner and lighter than the original one. The thickness of the headrest and the extension is reduced. However, the performance of the headrest is not affected.





The clips of the portable headrest can be rotated freely. All the seats on the public transport has an opening at the back of the seat. This opening allows the clips to clip and attach on it and make the portable headrest stable. The fact that the extension can be rotated make the portable headrest so much easier to put back after used. The clip can be rotated 90 degrees so that it is parallel to the headrest after use to save space and allow the users to carry around easily.

The portable has the dimension of a book or an Ipad. So if you are able to carry a book, you are able to carry the portable headrest as well. The users can put the portable headrest in their bags as it is significantly smaller than the bags. The bags can still be filled with other important stuffs as the portable headrest does not occupy too much space. The bags are not heavy too as the portable headrest is light. It can be lifted by a single hand easily just like an Ipad.

The portable headrest has an elegant look although it is simple. The combination of different colours make it more attractive and fascinating. The leather cover of the headrest allows the users to rest comfortably. The users can carry it with their hands even if they do not bring their bags. As the portable headrest is light, there is absolutely no problem for a person to bring it along wherever he goes for the whole day. The elegant design of the portable headrest also make you the centre of attention. The headrest is easy to use so even a young child is able to use it effectively.

The invention of the headrest will make the life of the public transport users more comfortable. By carrying around a portable headrest, they are able to enjoy the ride home. The portable headrest has lots of potential. This is because the public transports not having a headrest on their seats is public problem which affects a lot of people and is not addressed for a long time. With the portable headrest, people are able to rest well on the public transport.

