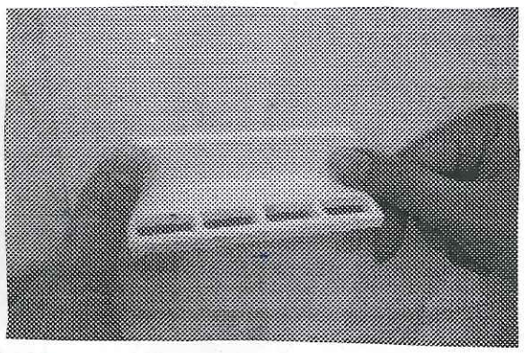
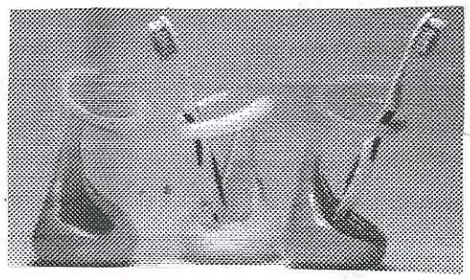
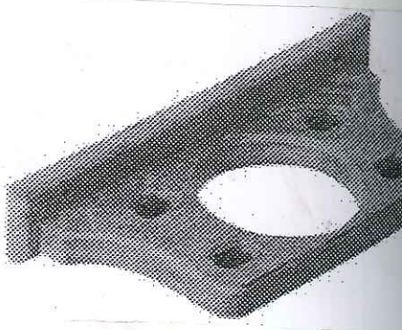
Investigation



I like this model as it is simple and also fits on to the wall. I also like this model as it is small and holds four toothbrushes what I'm wanting.



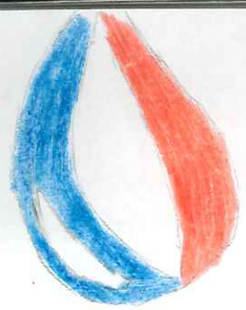
This model is really great model as it is very modern. The plastic swirls look very good and it is also small and could hold a few toothbrushes.



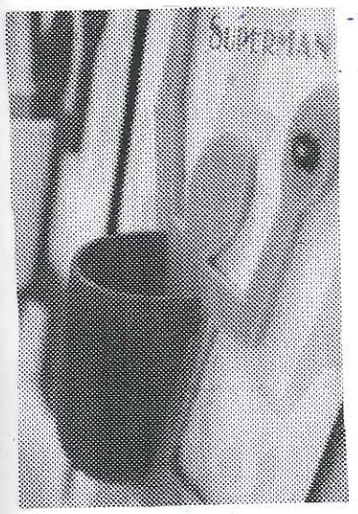
This model is very effe
as it fits on to the
wall what I'm look
for. It is also modern
and can hold a cup
is small and fits four

This model is really compli
and would be very hard
to make. The down side
to this is how it is a
bear, which would not
really go with a bathro

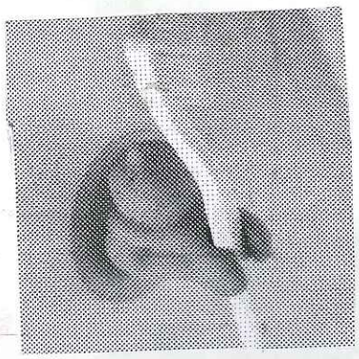
I really like this model as it is unique and fits on the wall. The down side to this is that it will only hold one toothbrush. This model will fit in my bathroom and it is also not to hard to make.



This idea is really unique but effective. The model is very small and can fit on the wall what I'm looking for. This mode however will be really har to make as its very small

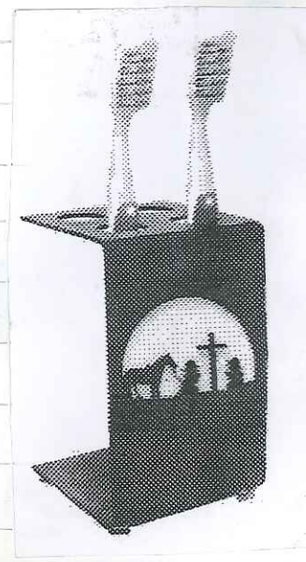


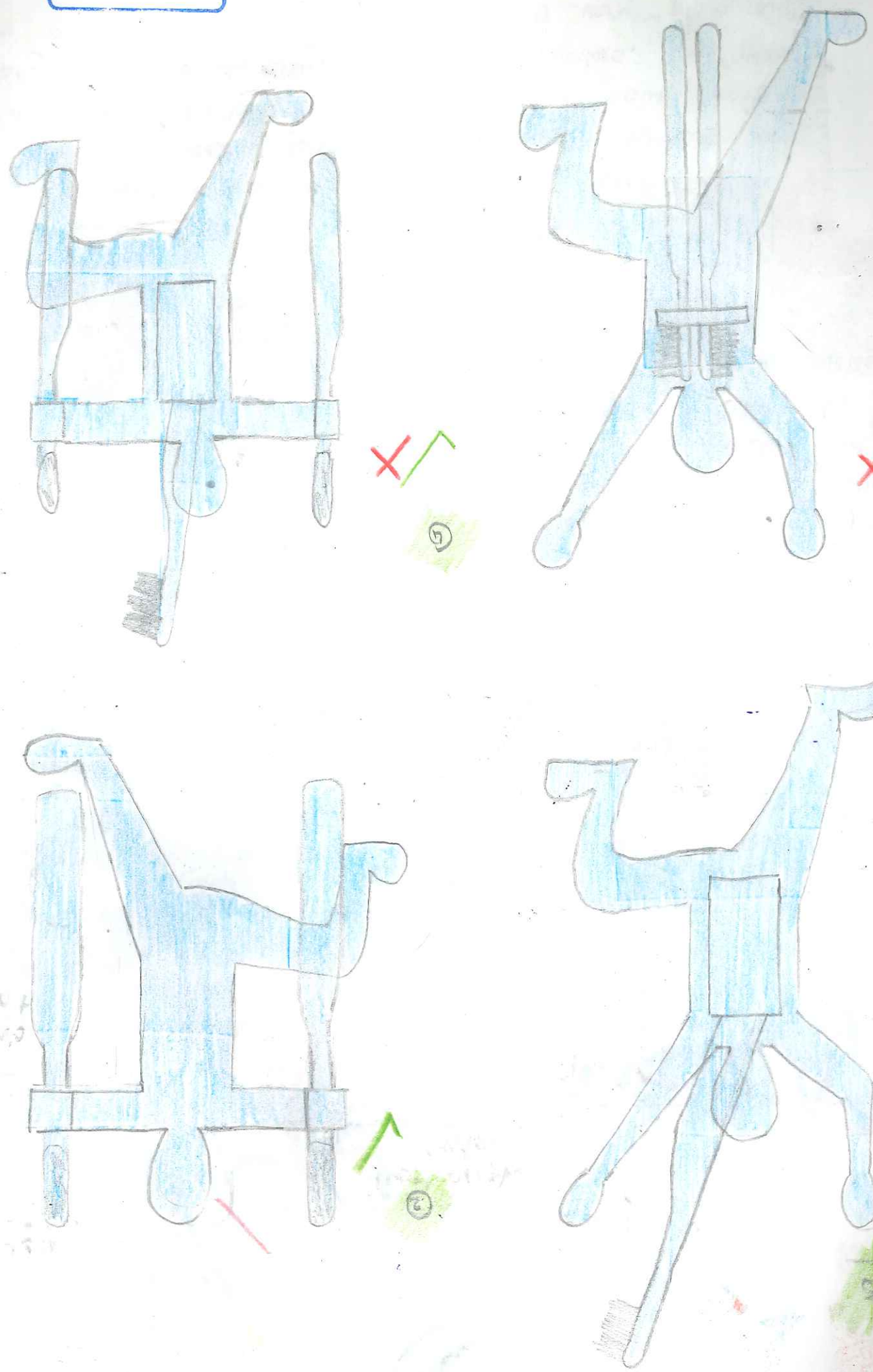
This cup is a really good idea and has many ways in which it could be joined on which I will investigate. This idea is really good as I will beable to identify my toothbruch easy.



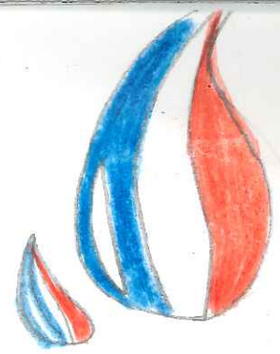
This idea is really effective but is not the material what I'm using. The mode can fit on the wall and is really small. I like the idea how the toothbrush clicks in.

This finished peice is very effective but a bit big for four tooth-brushes. The idea is very plain and is very easy to manufacture.

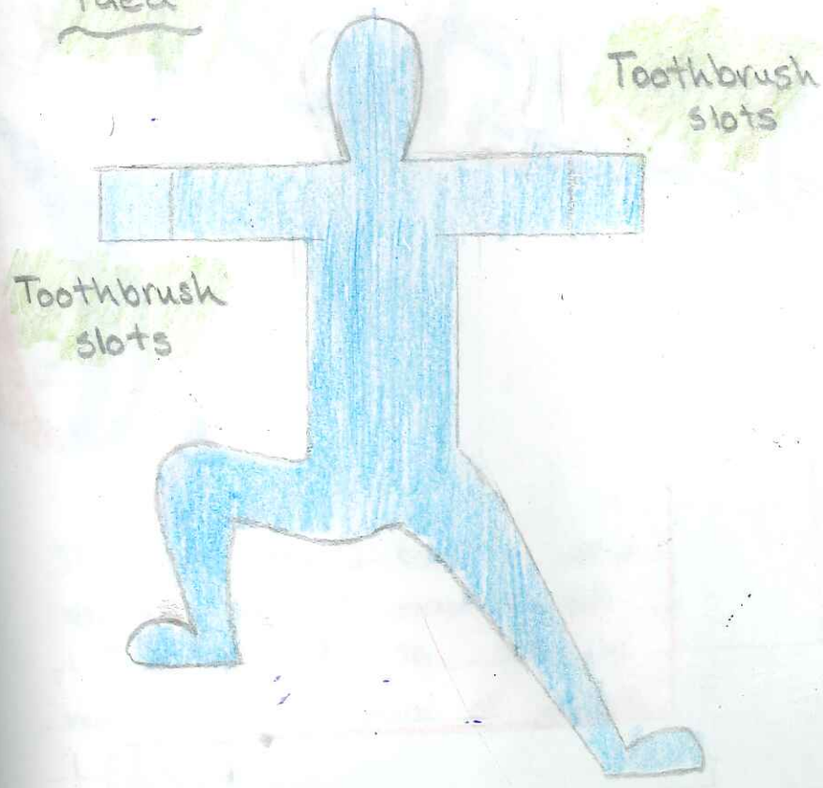



Like
DEAS
1
2
3
4

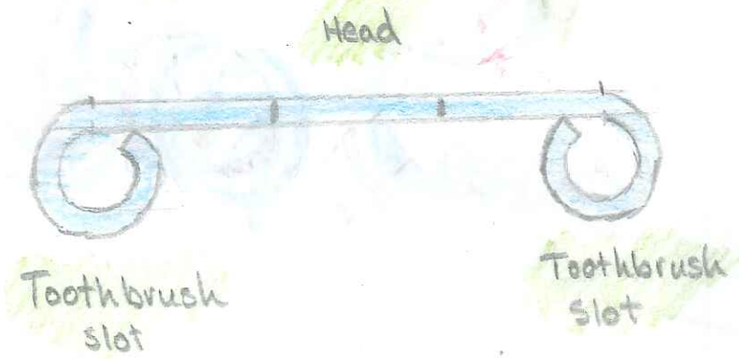
Idea developed futher

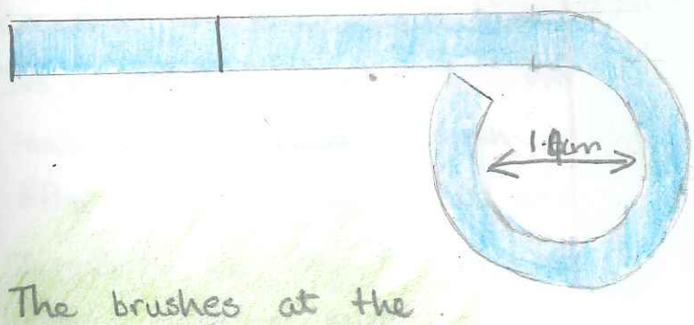


Idea



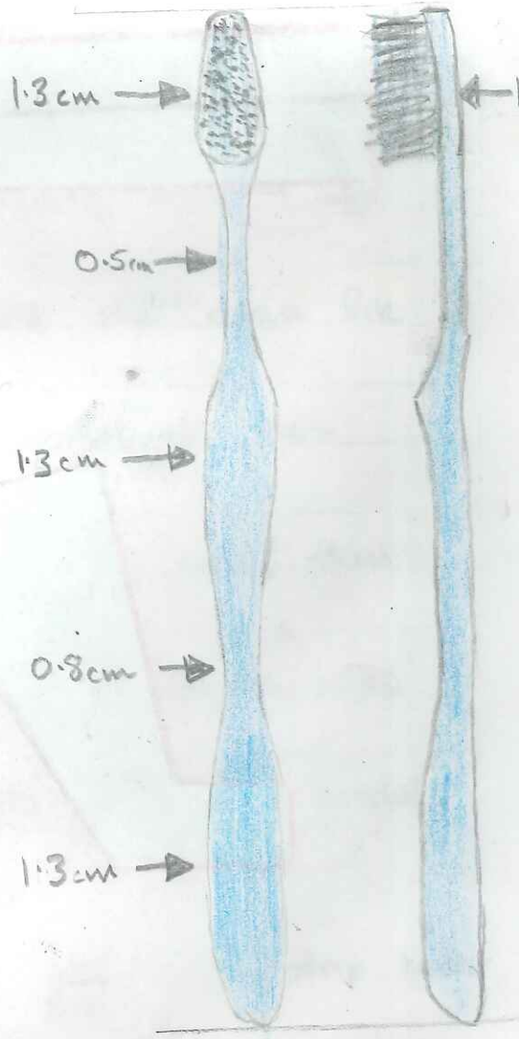
Top veiw





The brushes at the to of the toothbrush will stop this from falling through.

My toothbrush

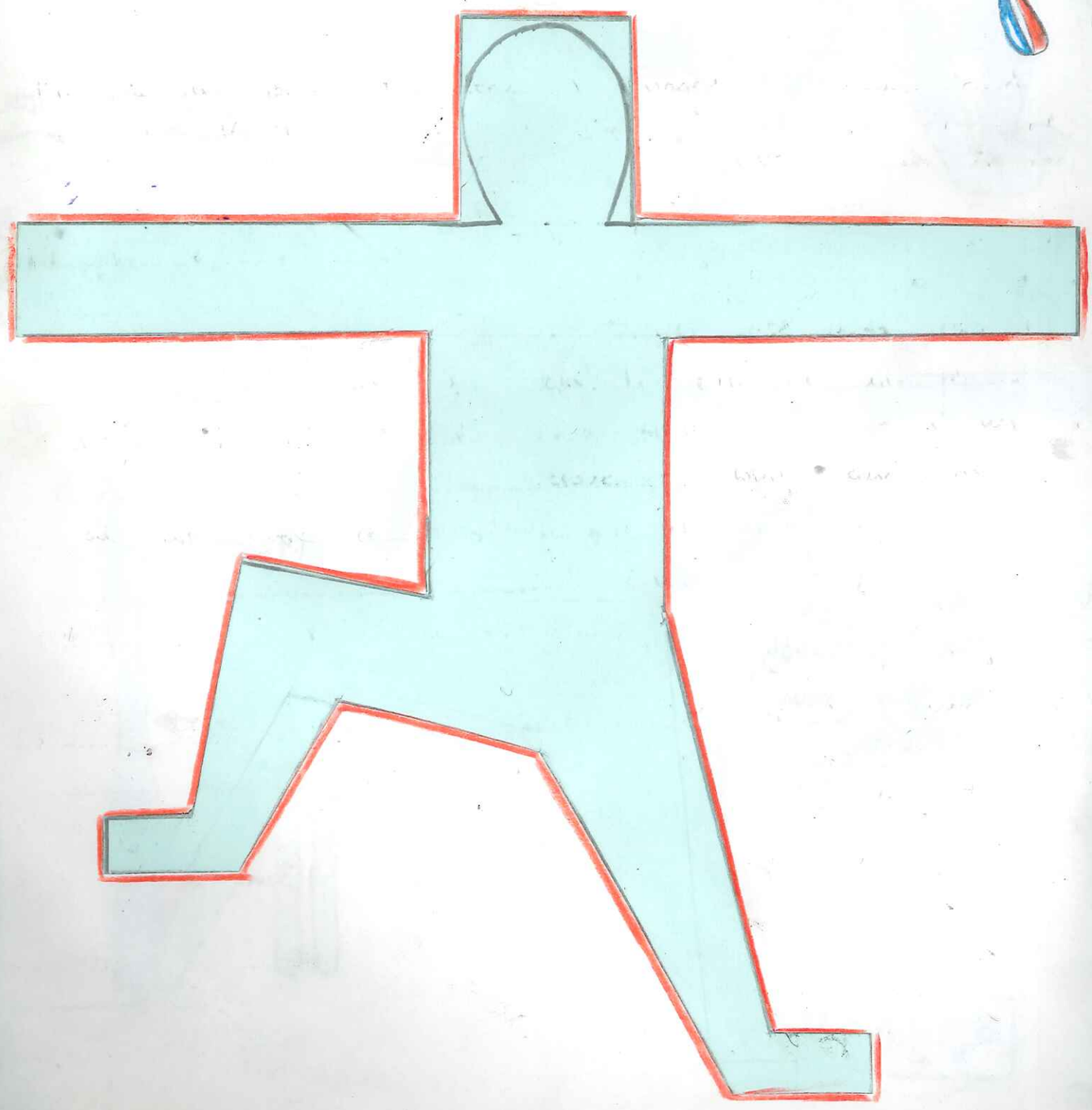


$C = \pi d$

$C = 14mm \times 3.14$

$C \simeq 44mm$

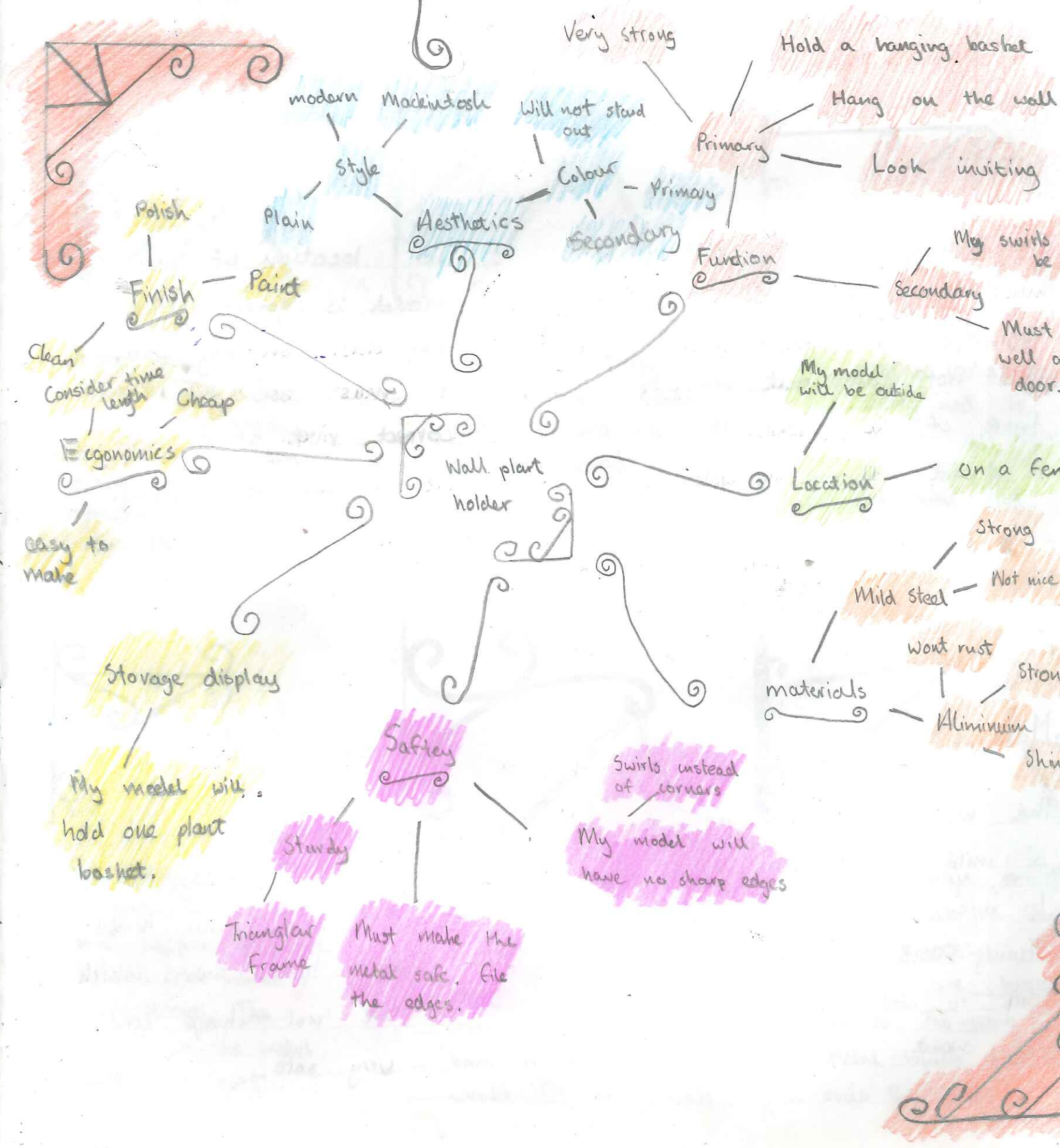
Solution



Problem

I am going to design and manufacture a flower holder for the outside of my house. I have choosen to do this model as my house looks to dull in the summer. My mode will be made from a material avaible to my department. My model will be finished and constructed to the best of my craftmenship. It will be simple but aethatically pleasing to a wide selection of costumers.

Recurrec


Wall plant holder
Aesthetics
Style
modern
Mackintosh
Plain
Colour
Will not stand out
Primary
Secondary
Finish
Polish
Paint
Clean
Ecgonomics
Consider time length
Cheap
easy to make
Storage display
My model will hold one plant bashet.
Function
Primary
Very strong
Hold a hanging bashet
Hang on the wall
Look inviting
Secondary
My swirls be
Must well o door.
Location
My model will be outside
On a fen
materials
Mild Steel
Strong
Not nice
Aliminum
wont rust
Stron
Shin
Safety
Swirls instead of corners
My model will have no sharp edges
Sturdy
Triangular Frame
Must make the metal safe, file the edges.

Specification

Function

The function of my model must beable to hold a hanging basket safely. It must not stand out in-front of the flowers. It must fit well on my wall.

Location

The location of my model is going outside my door on my wall. I must use the correct rivet so it will fit on my wall evenly.

Material

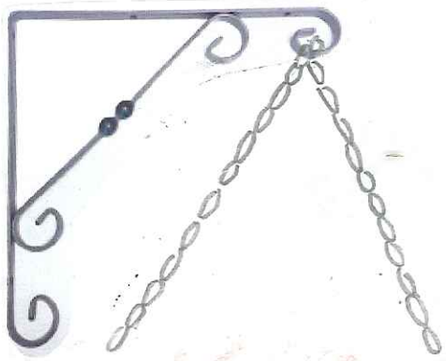
The material I will use is mild steel. I have choose to use this it is strong and I cant paint this to ~~used~~ ever colour I want.

Saftey

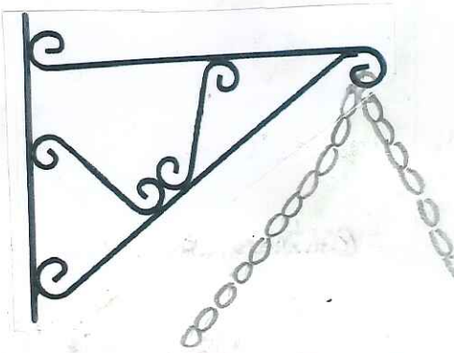
My model will have no sharp edges. At the corners my model will have swirls whi are not sharp and very safe.

Investigation

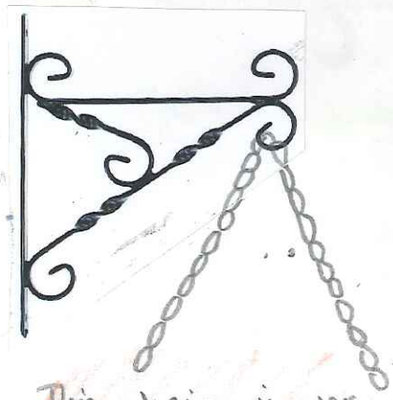
This design is very strong and very effective. The colour green is very good. The design is very strong and has an trianglar frame which makes this very strong.



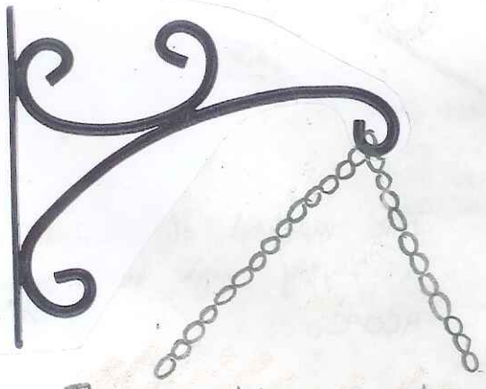
This design is simple but is very strong. The Aliminuim stands out well and has a very good finish. The twists in the bar looks very effective.



This wall plant
design looks v
strong and the
colour black l
well. The swir
all even and
design has a
support bar.



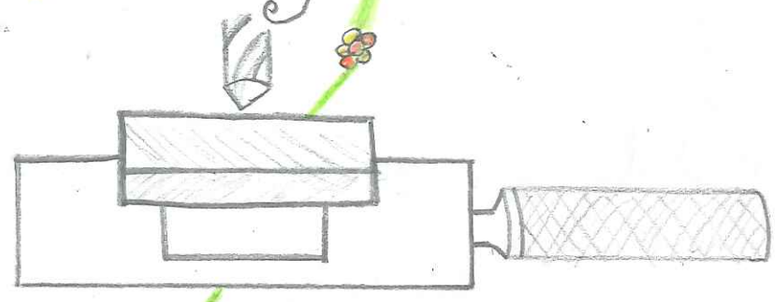
This design is very complex. The swirl and support bar are brazed on which is very strong. The Swirls in the metal look very good.



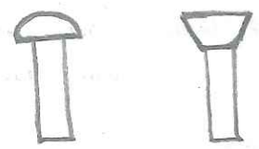
These swirls are brazed on. The circular bar is very effective. This design is not as strong as the support bars is rounded. This would fit on a wall.

This design is
most simple
have choosen.
swirls are br
on to the peice
metal which wil
onto the board

Riveting



Firstly you drill through the two peices of metal you wish to rivet together.



Snaphead countersunk

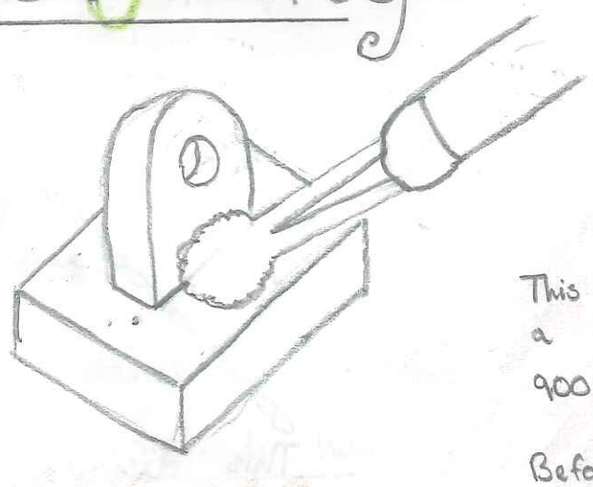
Countersunk

- These rivets leave a smooth finish which helps for going on a wall.
- A rivet will ~~ex~~ rust away in time.

Snaphead

- Snaphead rivets leaves round finish which me 'it will be uneven i on a wall.
- Snapheads will also time.

Brazing



This method of joining metals uses a very high temperature around 900°C.

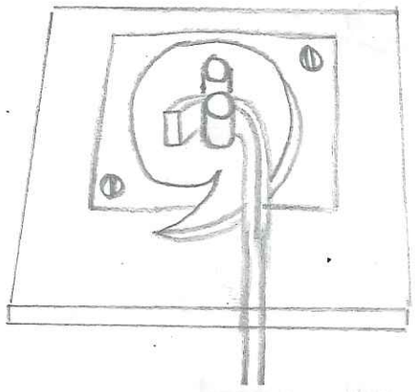
Before Brazing you must clean the two peices of metal you wish to join together.

The finished joint is very strong however the metal must be clean or the Brazing will not happen.

Scroll Work

Scroll work can be used for

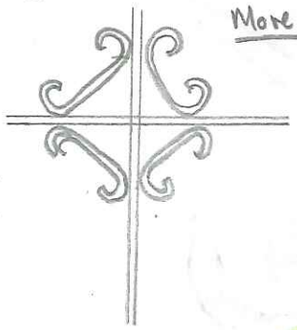
- Brackets
- Gates
- Sign



After making your scrolls you can join them by welding or by riveting whatever suits best.

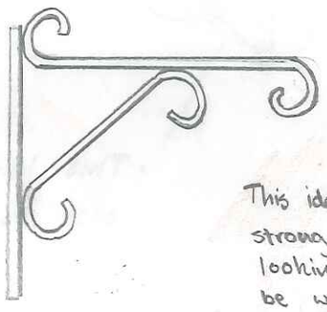
Simple

More difficult

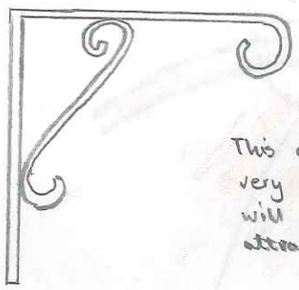


I will keep my design (scrolls) simple and the finished result will look better.

Ideas

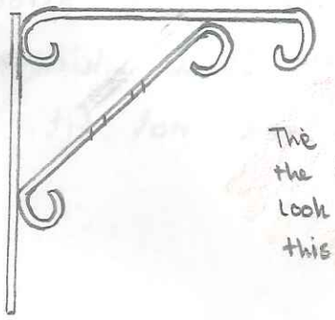


This idea will be strong but good looking. This will be welded.



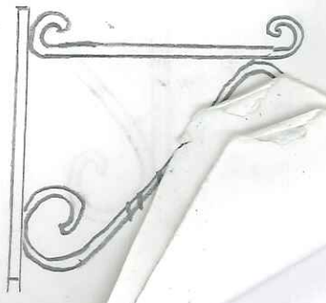
This design is very simple but will be strong & attractive.

This design be as st but looks good.

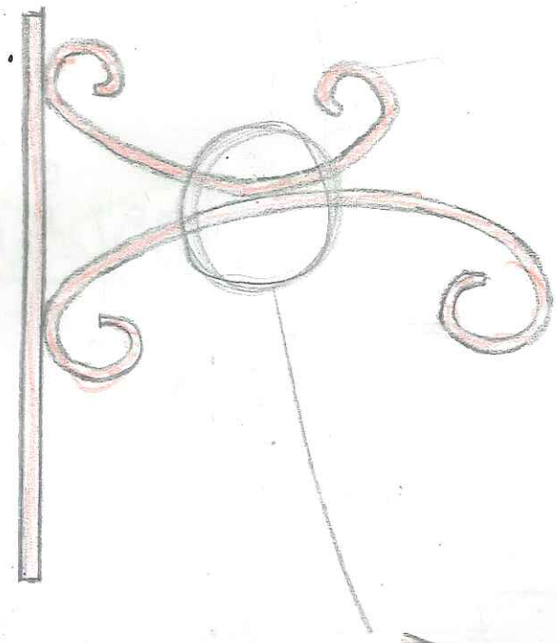


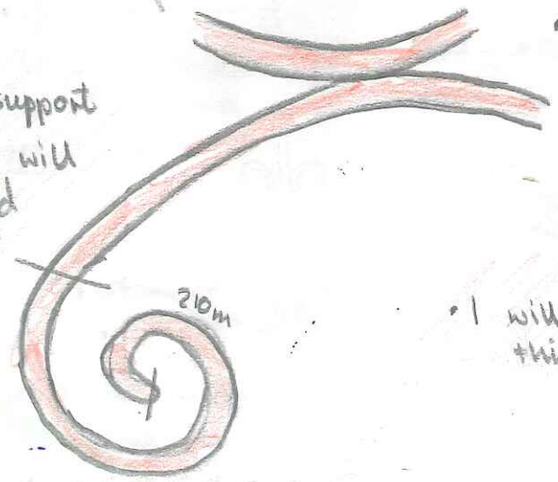
The twists in the bar will look good on this model.

The curved bars look really good but this will not be as strong.

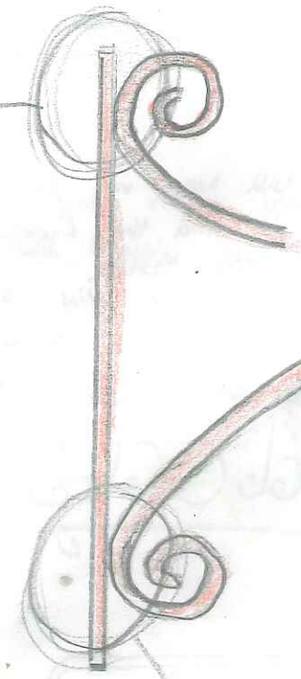


Developed Further

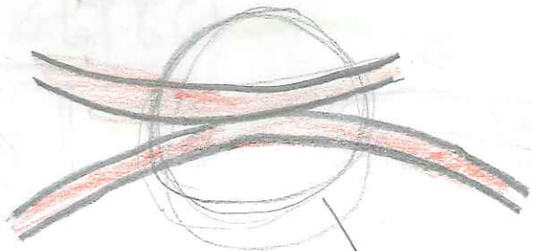




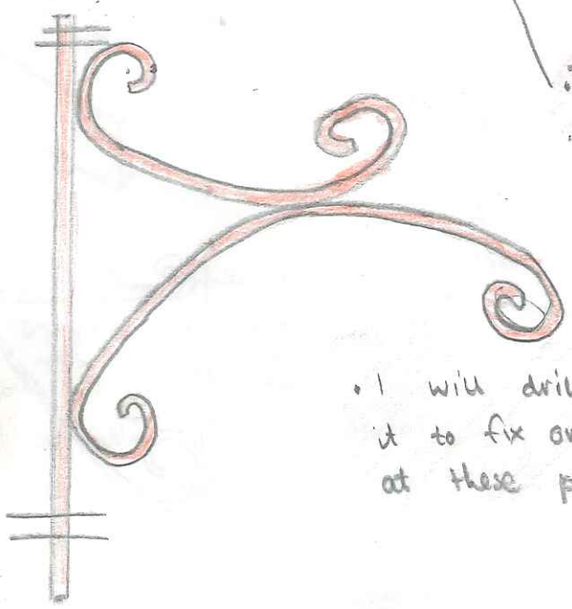
- The top bar will support the main bar which will help it not to bend when holding the basket.
- This join will be brazed as it cannot be riveted.
- I will braze this joint
- The lenght of this scroll will be 210mm long.



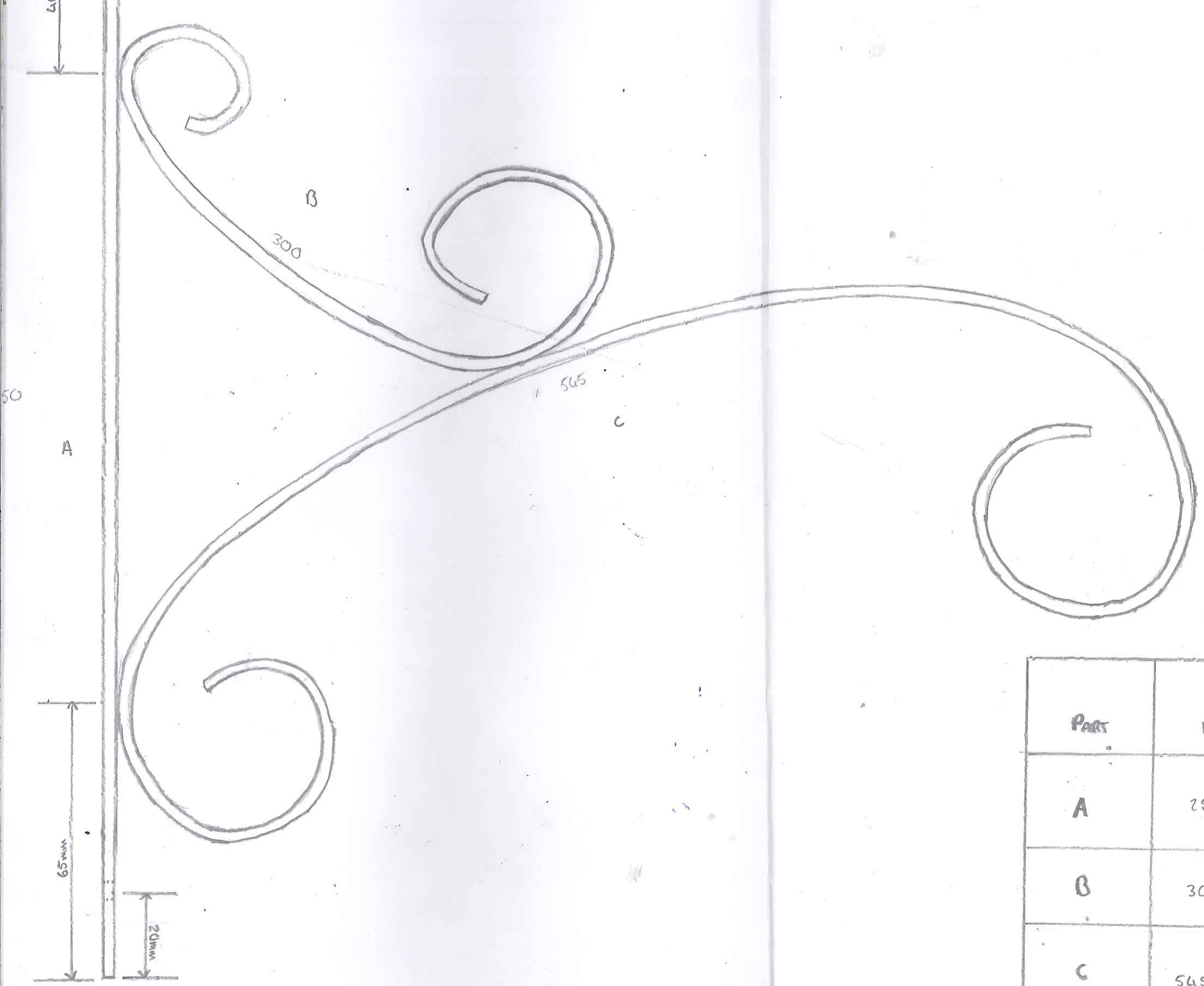
- This jointed also be bra



- This will be brazed.



- I will drill holes for it to fix onto a wall at these points
- I will need to braze my metal at all my joints as I have scrolls at every joint which mean rivets will not fit.



overall leng

CUTTING LIST

PART	L	B	T	MT
A	250mm	20mm	3mm	M.S
B	300mm	20mm	3mm	M.S
C	545mm	20mm	3mm	M.S