

107基本工業設計

- 1. Basic design knowledge
- 2. design skills
- 3. Design Application.

成績計算(Design skill佔總成績的50% design application亦佔總成績的50%)

1. Hand made Drawing (Sketching)-2D ability. (這是連結素描課及表現技法課重要技法)

請將以下的圖面各臨摹2張A4紙!(30%)。

2. Mockup(草模) 請用PU材料磨一隻滑鼠尺寸自訂(已自己的手為尺寸大小) 請先用Auto CAD畫出3視圖並標註尺寸-30% (這是鍊結圖學及工廠實習的重要技法)

3. Computer mockup-3D ability (Rhino&3DMax). -30%

- 基本作業01：製作一個戒指 (ring) 10%
- 請參考：<https://youtu.be/ZZ-VvjUKESQ>
- 基本作業02：製作一隻滑鼠 (Mouse) 25% (獨立作業)
- 進階作業01：製作一張椅子 (Chair) 30%
- 請參考：<https://youtu.be/9SofJmP40z0>
- 4. 請撰寫約500字的心得請於第3周的星期五下課前繳交電子檔 (word)-10%

107 Design knowledge

- 1. Basic design knowledge
- What is industrial design?
- <https://youtu.be/d3hJcnWKezk>
- <https://youtu.be/11Ne1SwXcnw>
-
- The Art of Engineering: Industrial Design at Delta Faucet
- <https://youtu.be/c1ksrjRA678>
-
- 唐诺德·诺曼：设计使人快乐的3种方式
- <https://youtu.be/RIQEoJaLQRA>
-
- How To Sketch Like A Product Designer
- <https://youtu.be/iVy0qGqmKFU>
-
- 3 Important Sketching Exercises for Any Designer (Beginner)
- https://youtu.be/IM_zvACz2og
-
- Product Design Process: SOLVE PROBLEMS AND MAKE DECISIONS FAST (Lightning Decision Jam)
- <https://youtu.be/xNpVaNIUS4U>

107 Design knowledge

- How It Works: Design Thinking
- <https://youtu.be/pXtN4y3O35M>
-
- Want to learn better? Start mind mapping | Hazel Wagner | TEDxNaperville
- <https://youtu.be/5nTuScU70As>
-
- straight to the point: what is 5W2H
- <https://youtu.be/yMjngIXE-40>
- 請下載X-MIND:https://www.xmind.net/download/
- 請撰寫約500字的心得請於第3周的星期五(2018/09/28)下課前繳交電子檔
(word)-10%

重要繳交時間

1. Hand made Drawing (Sketching)-2D ability.-1 week.(2018/09/28)
2. Hand made mockup (草模) -3D ability (Rhino). -3weeks. .(2018/10/05)
3. Computer 3D mockup (3D model & rendering , colors, material , textile (3D max) . And 3D Print- 2 weeks.

以上3項作業**最晚**請於第8周的星期五.(2018/11/02)

下課前繳交實體（草模）and 3D Print outcome及電子檔!

成績計算(Design skill佔總成績的50% design application亦佔總成績的50%)

1. Hand made Drawing (Sketching)-2D ability.

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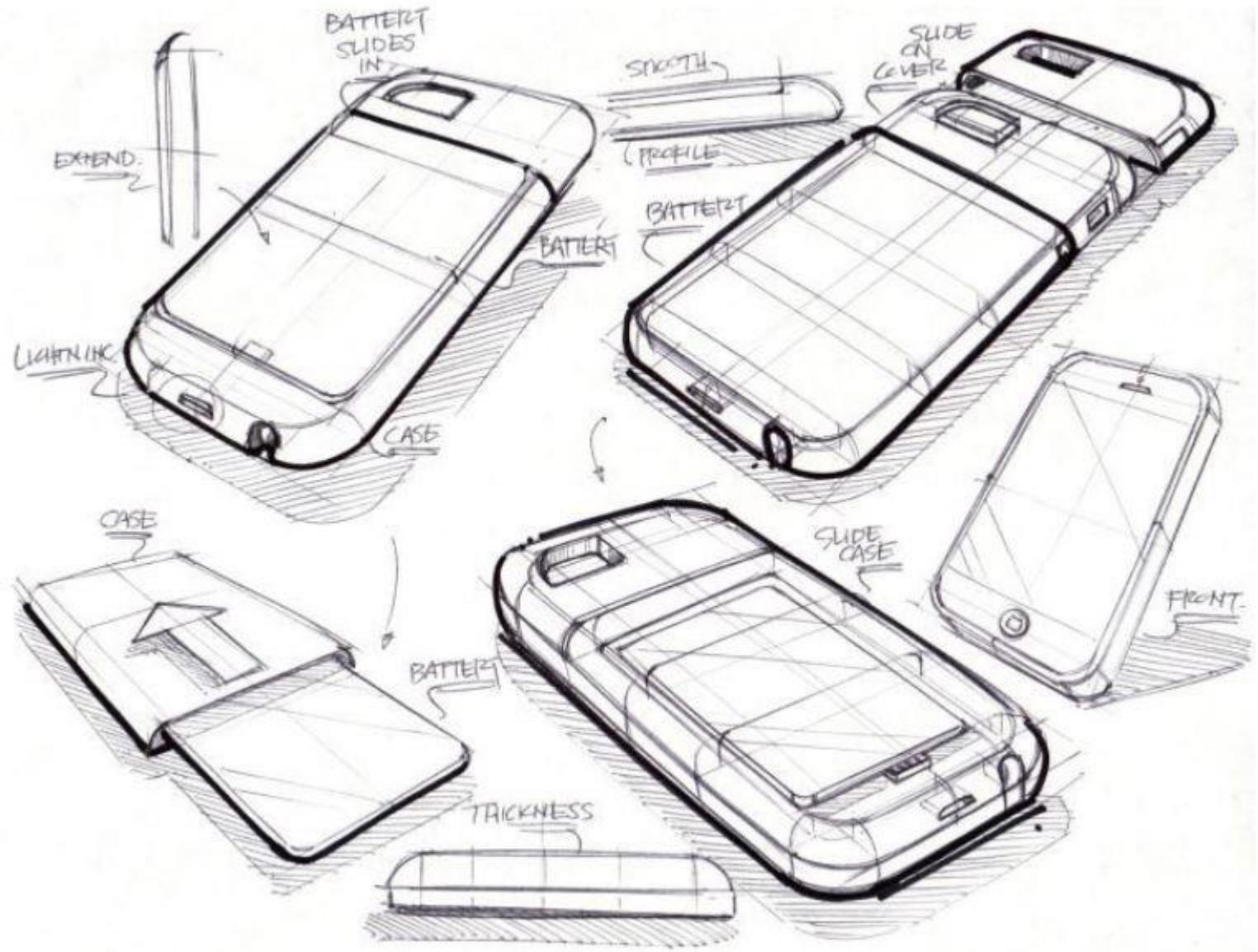
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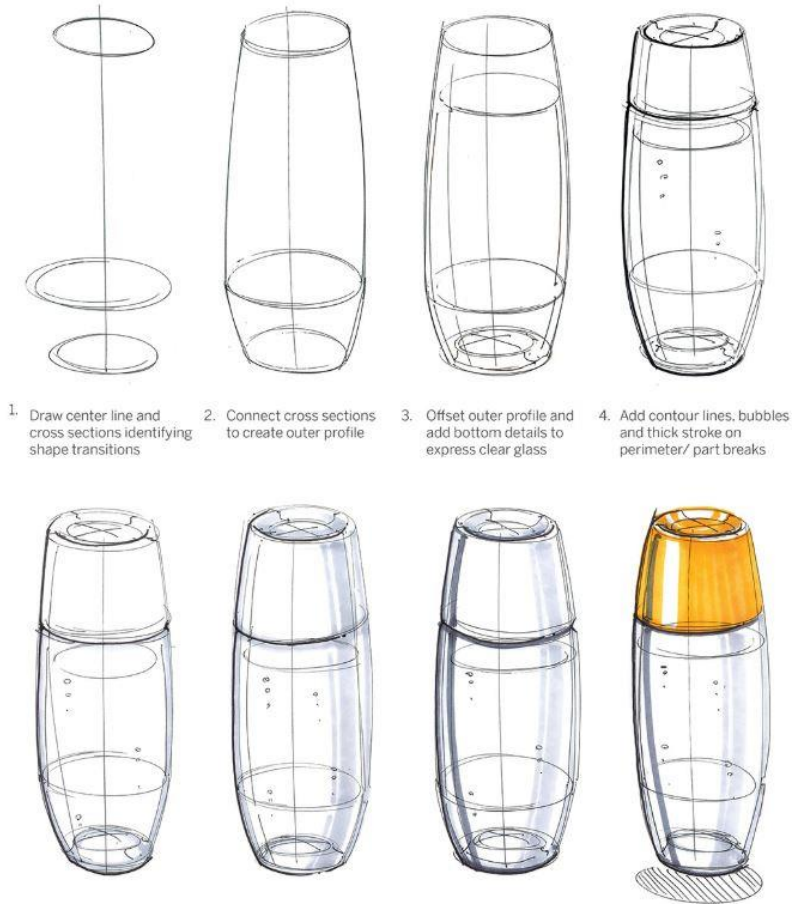
107 Design skills

1. Hand made Drawing (Sketching)-2D ability.

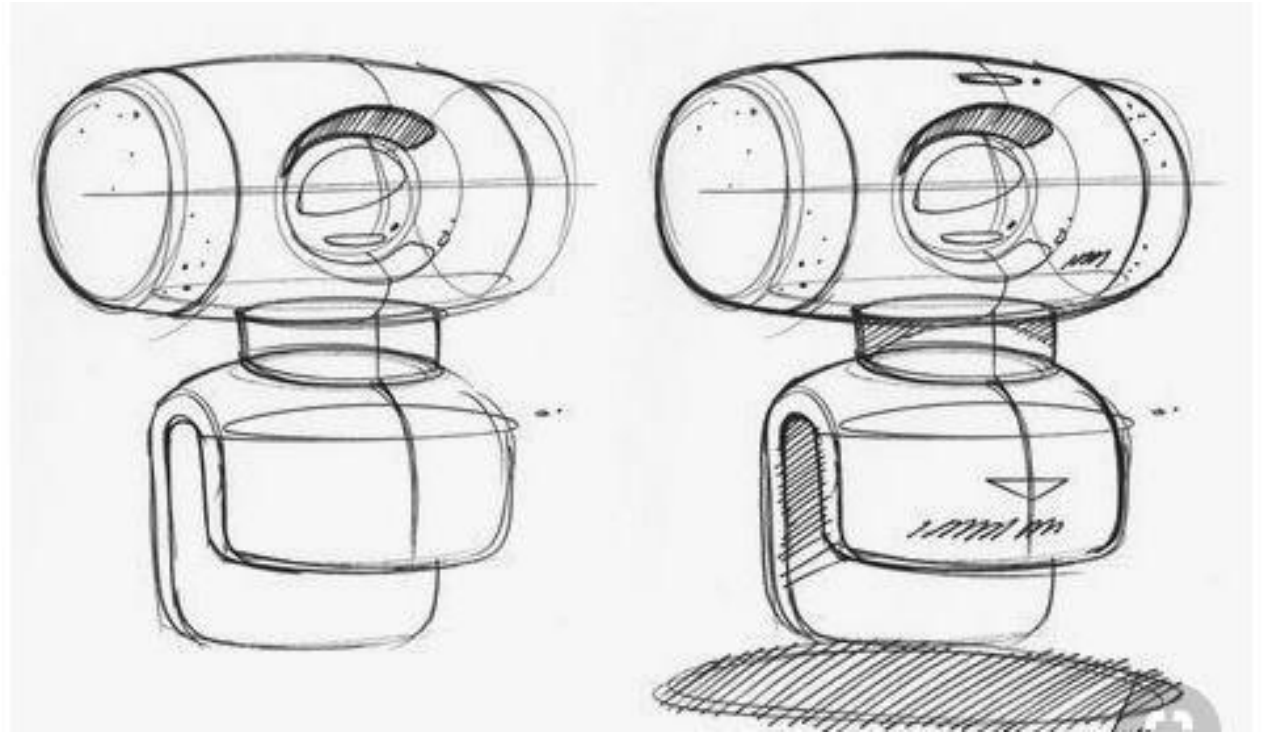
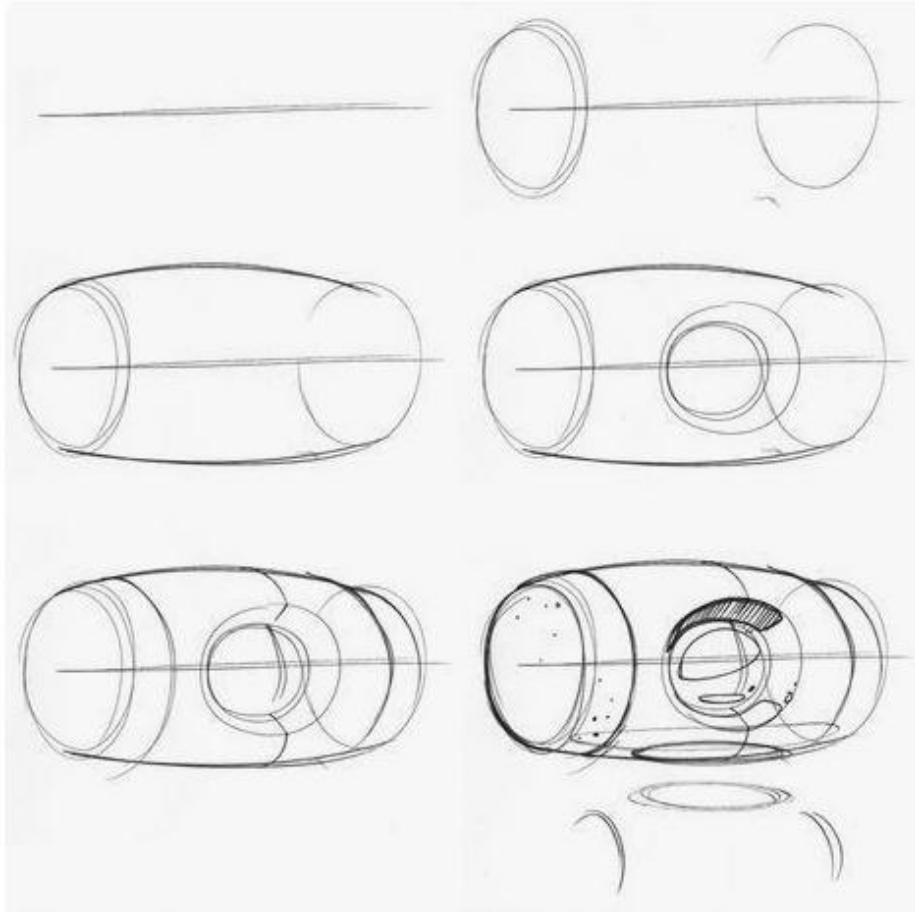
請將以下的圖面
各臨摹2張A4紙!(30%)
可上色!



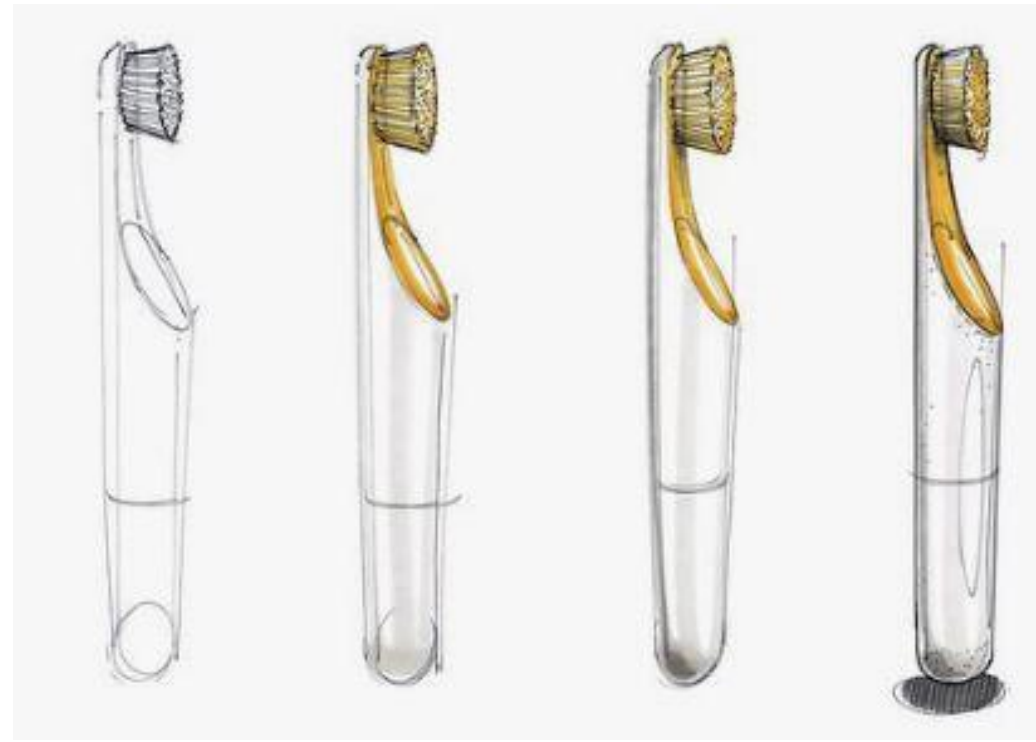
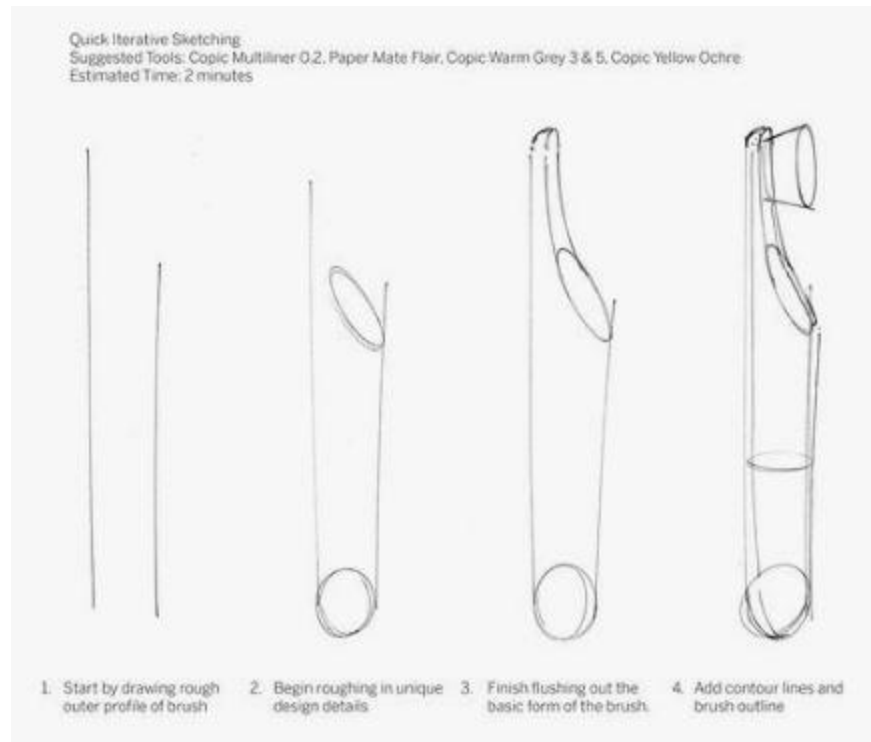
107 Design skills

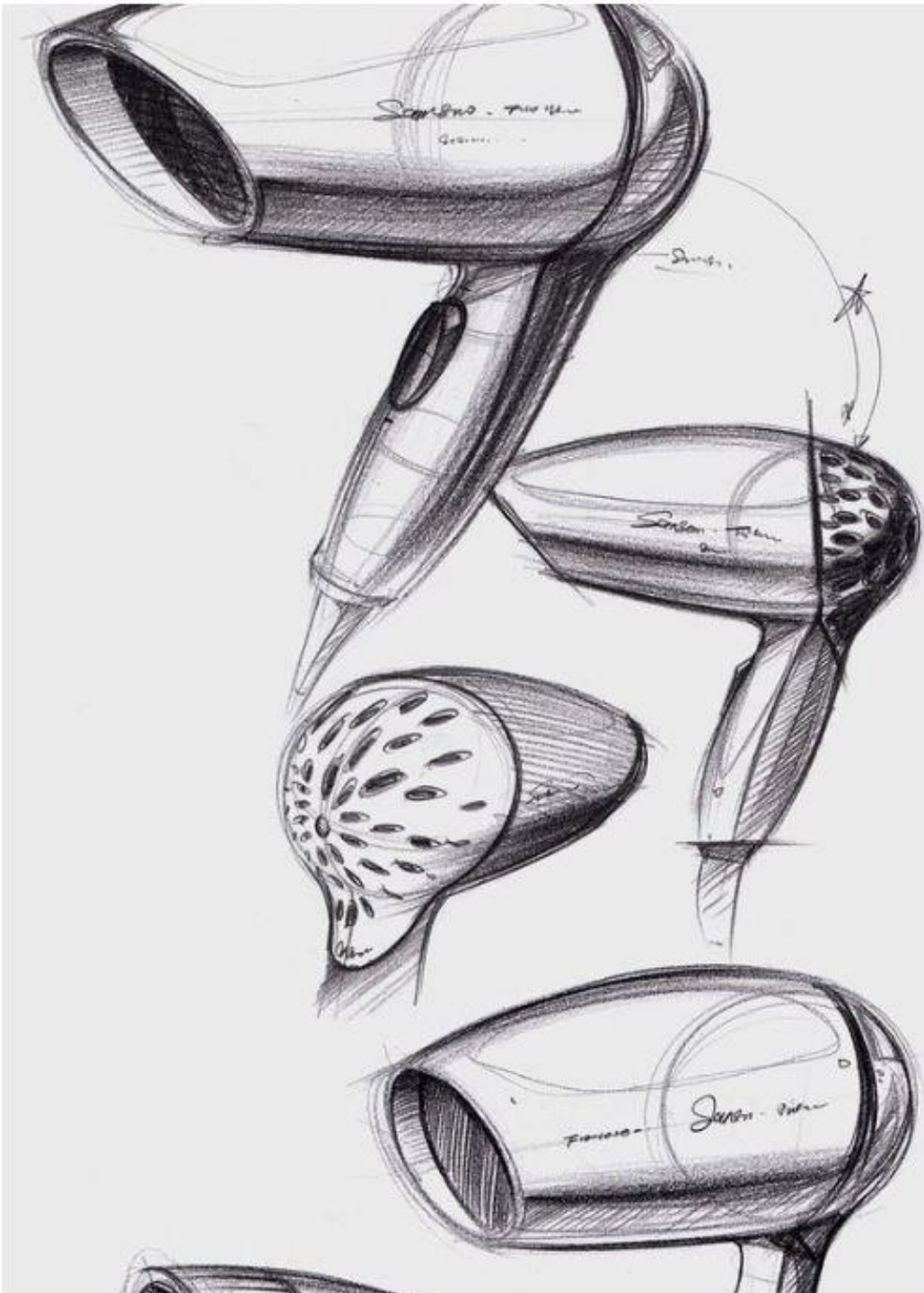


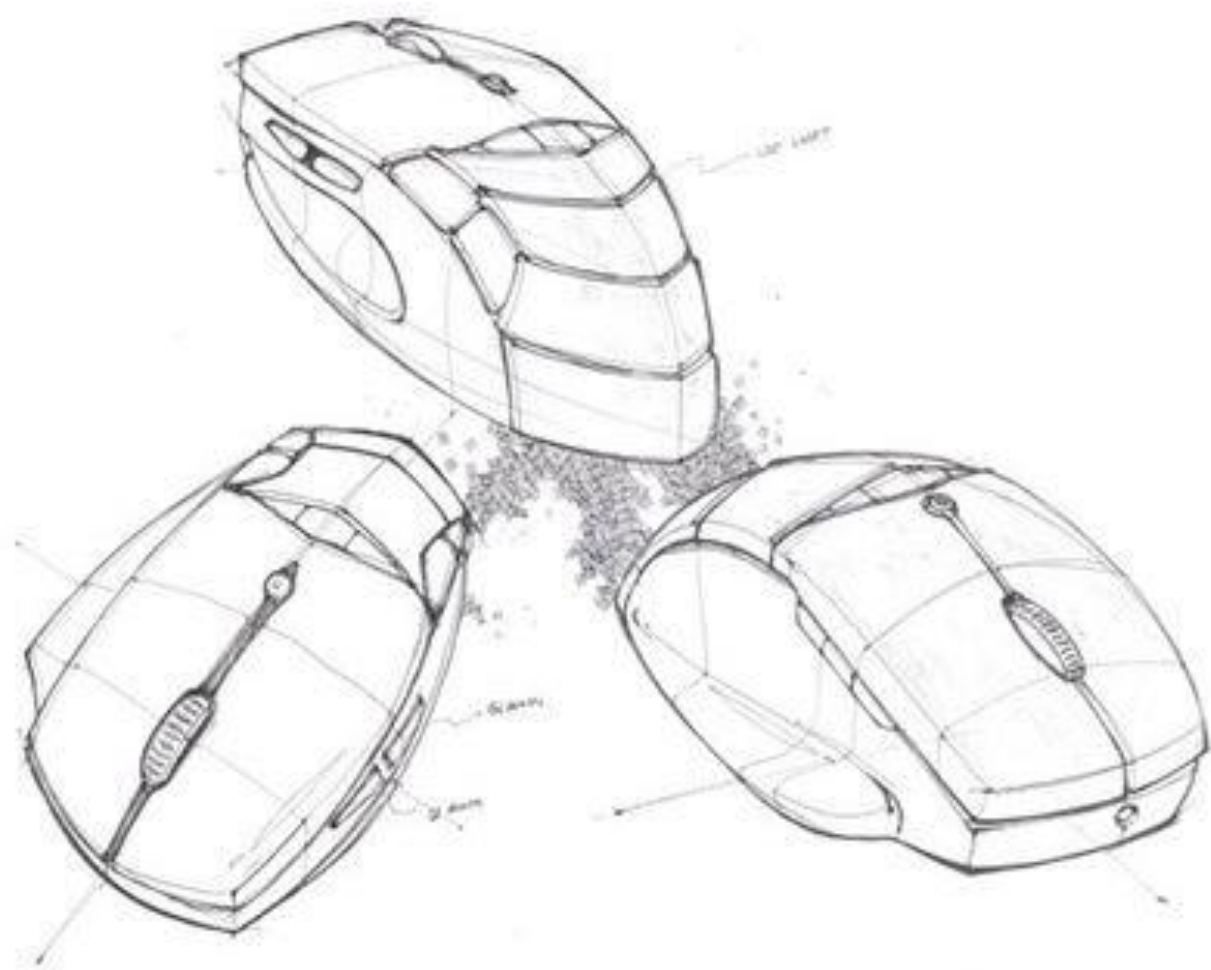
107 Design skills

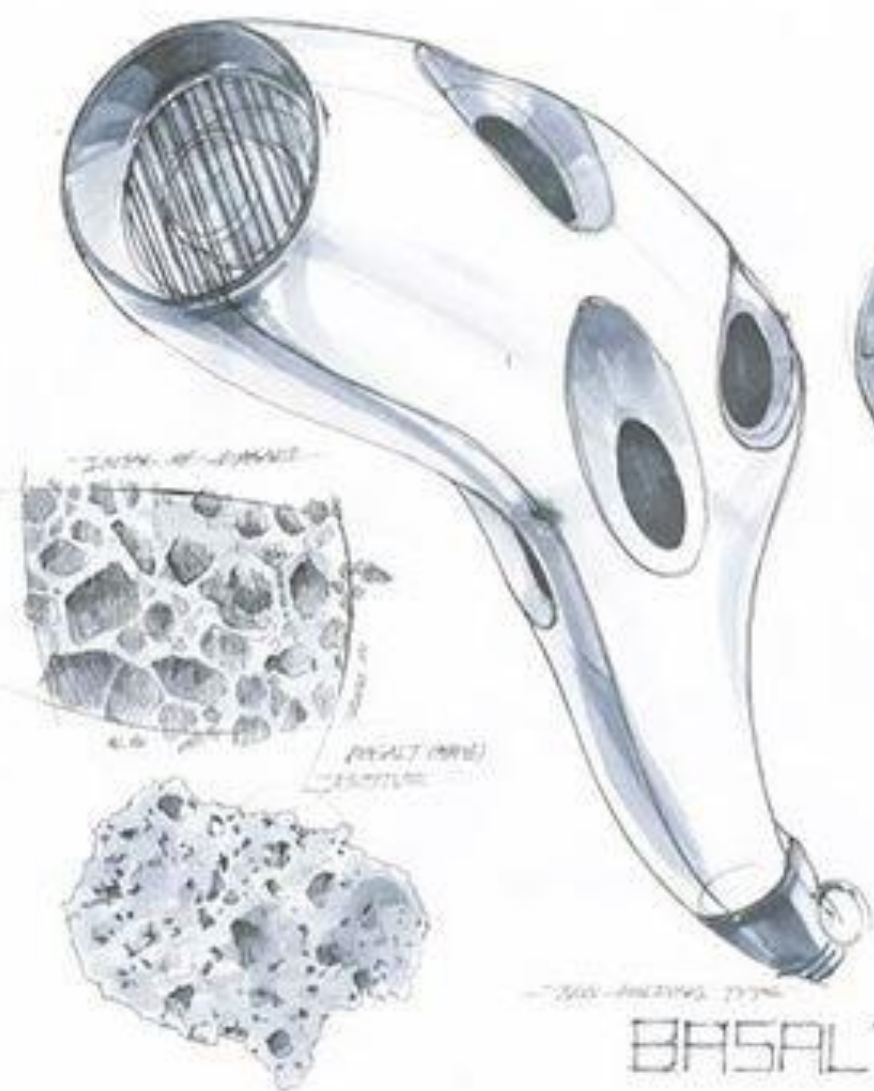


107 Design skills







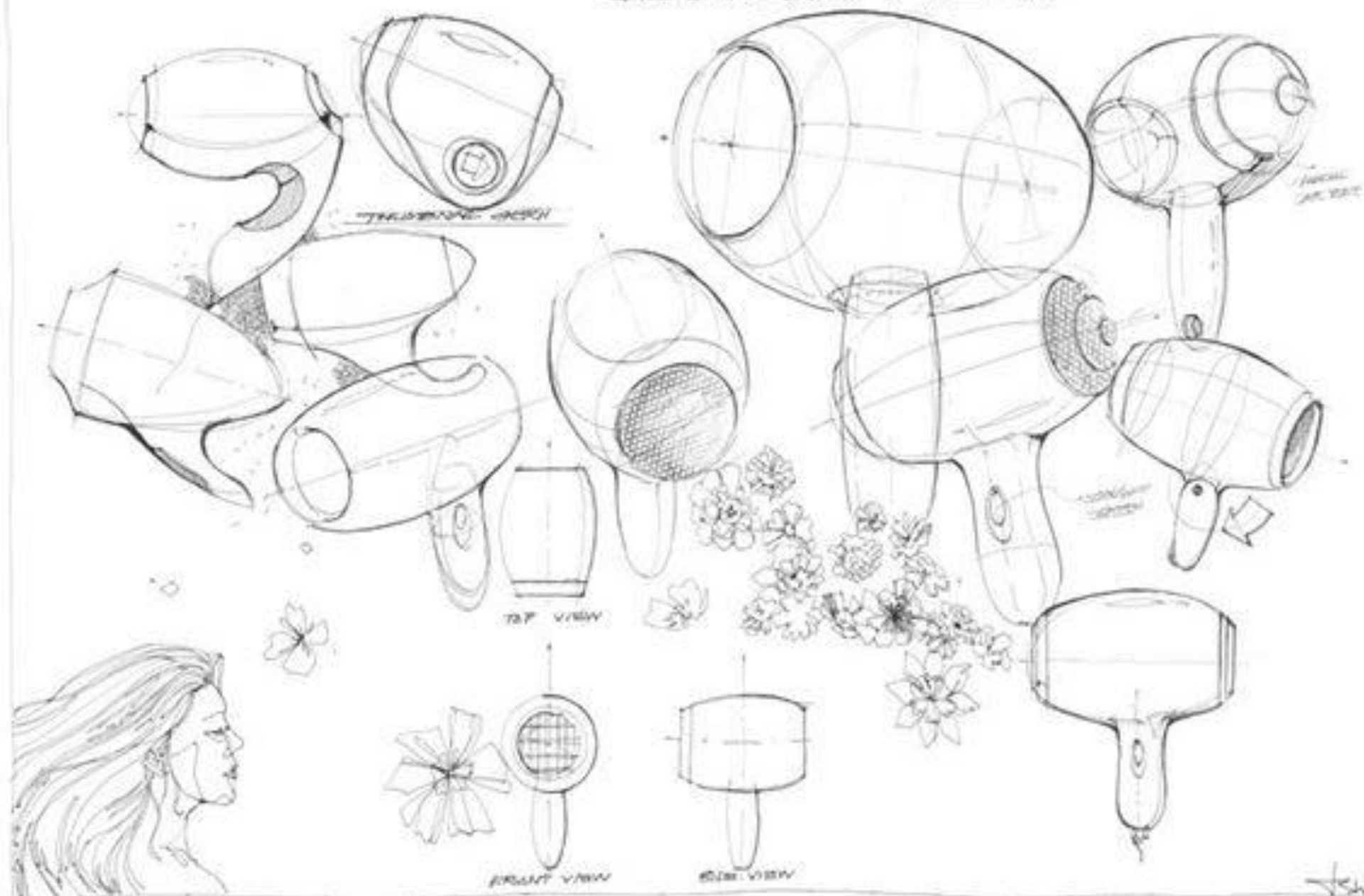


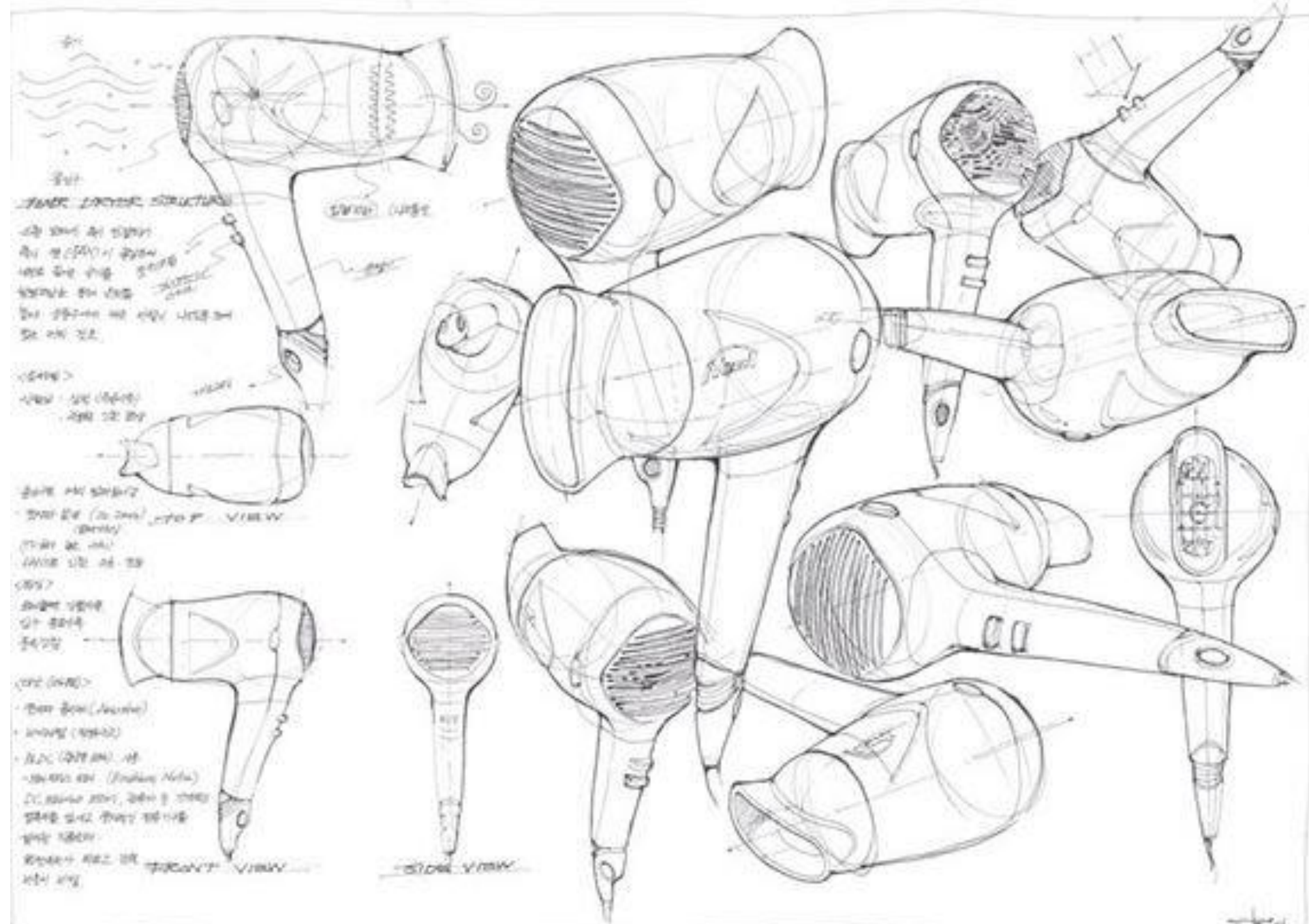
BASALT

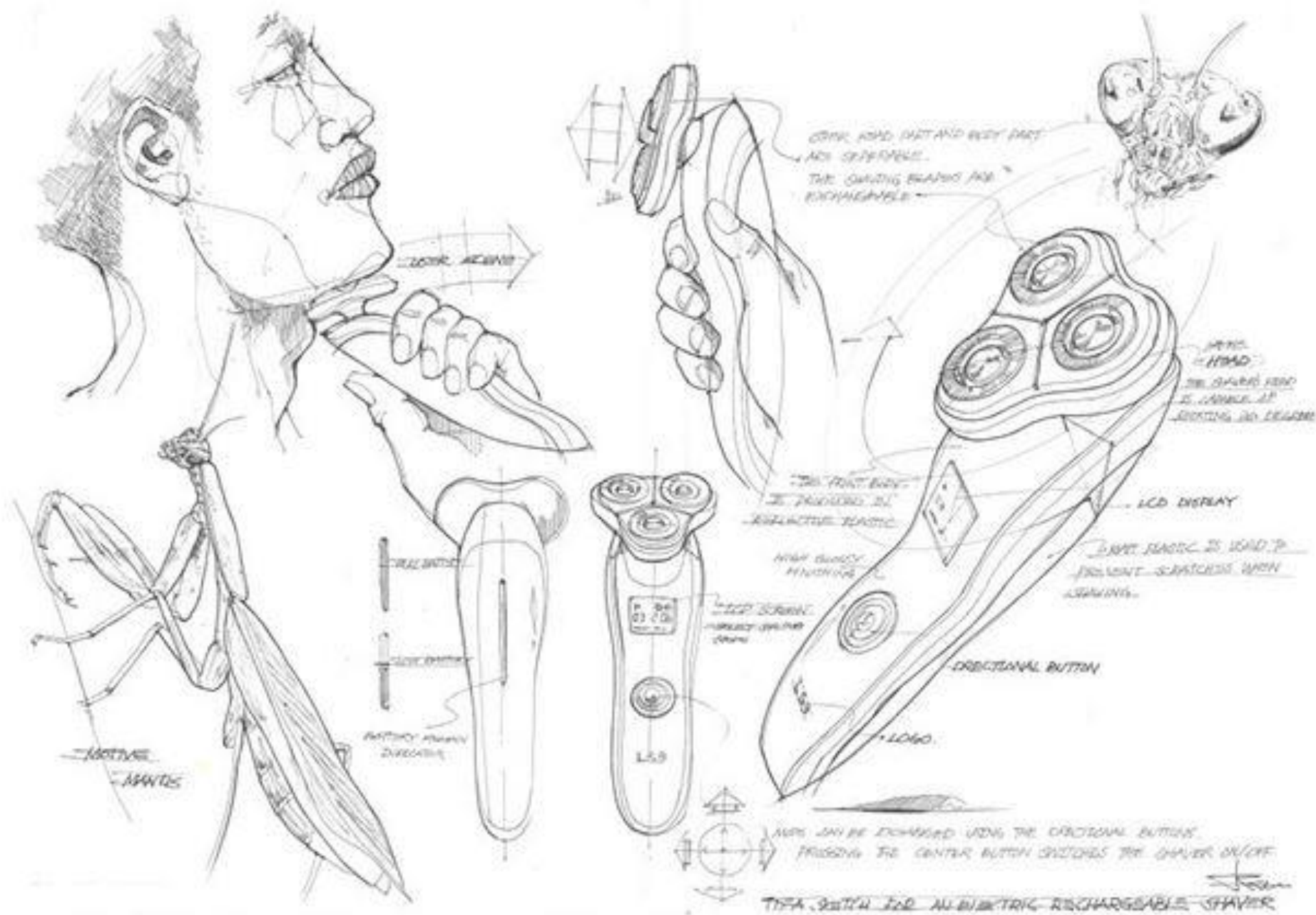


CANOTT HAIR DRYER RINGORING BASALT

CASUAL HAIR DRYER







LOOK AHEAD

LOOK BACK

CORK HOOD (HAT AND BODY PART) ARE SEPARABLE

THE CHARGING BRASS FOR RECHARGEABLE

HEAD

THE CHARGING HEAD IS CARVED AT ANGLE TO THE BODY

LCD DISPLAY

THE BODY IS CARVED AT ANGLE TO THE HEAD

DIRECTIONAL BUTTON

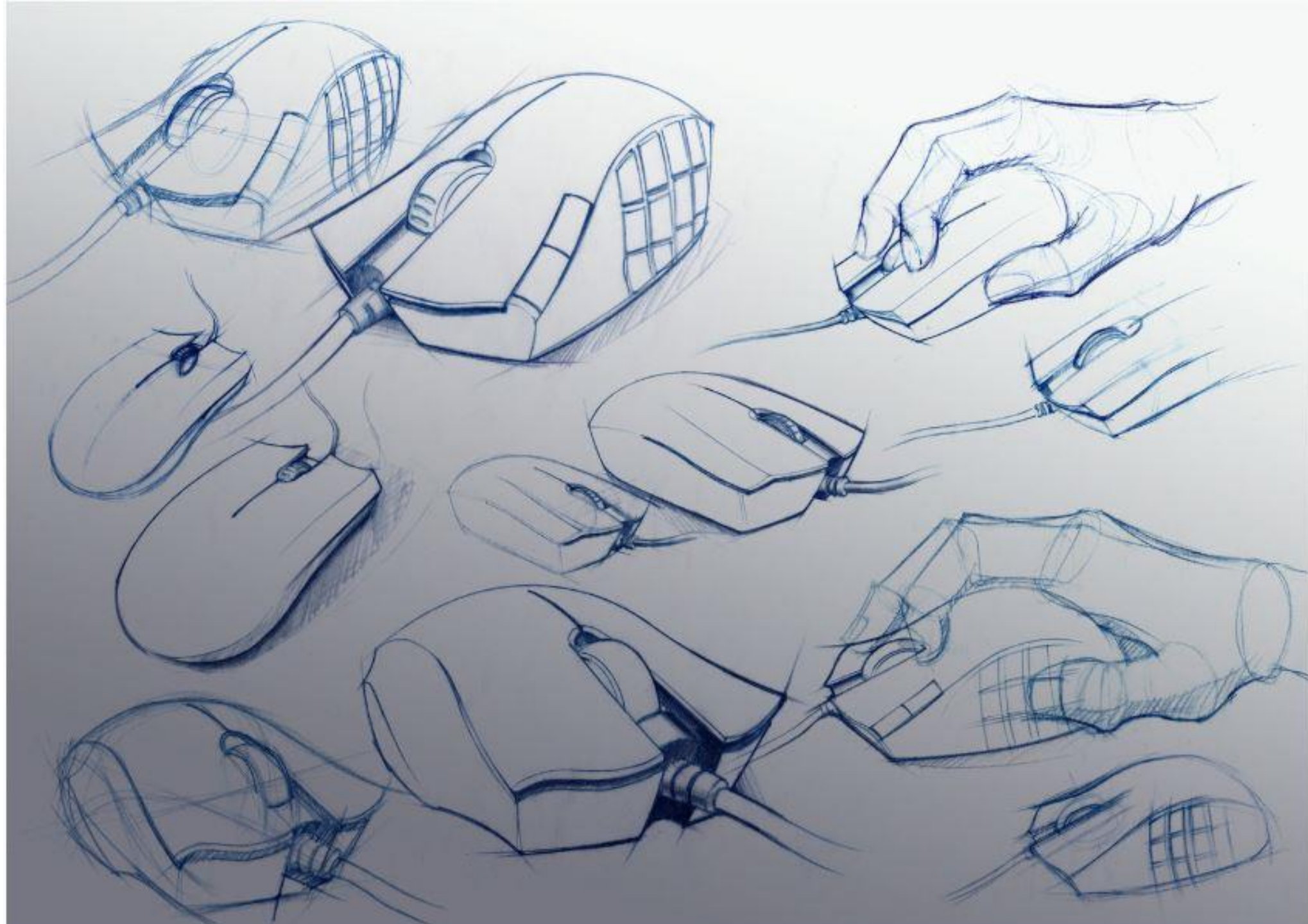
LOGO

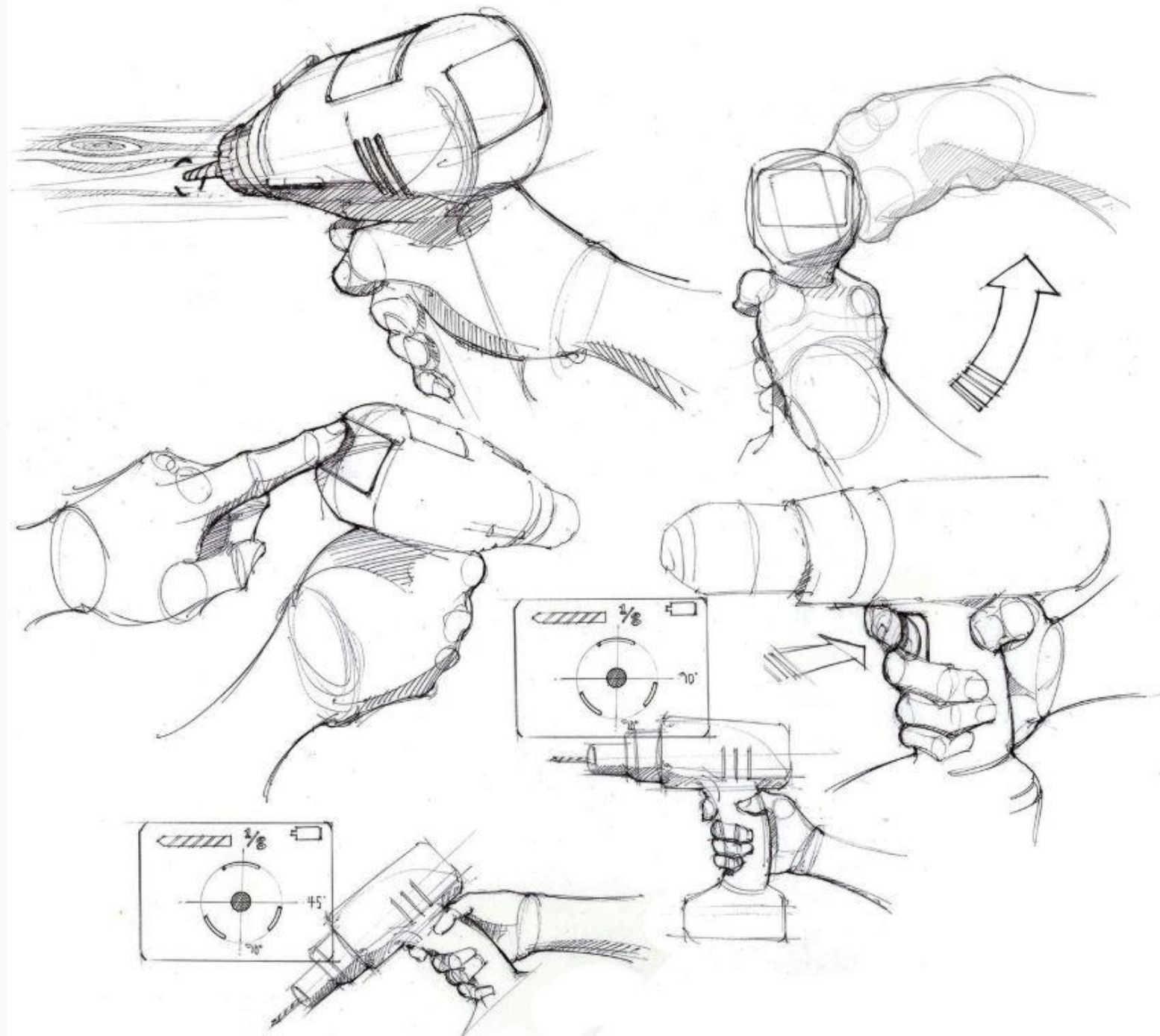
HEAD CAN BE EXCHANGED USING THE DIRECTIONAL BUTTONS

PRESSING THE CENTER BUTTON SWITCHES THE SHAVING ON/OFF

TIP-A-SYSTEM FOR AN ELECTRIC RECHARGEABLE SHAVING

MANTIS

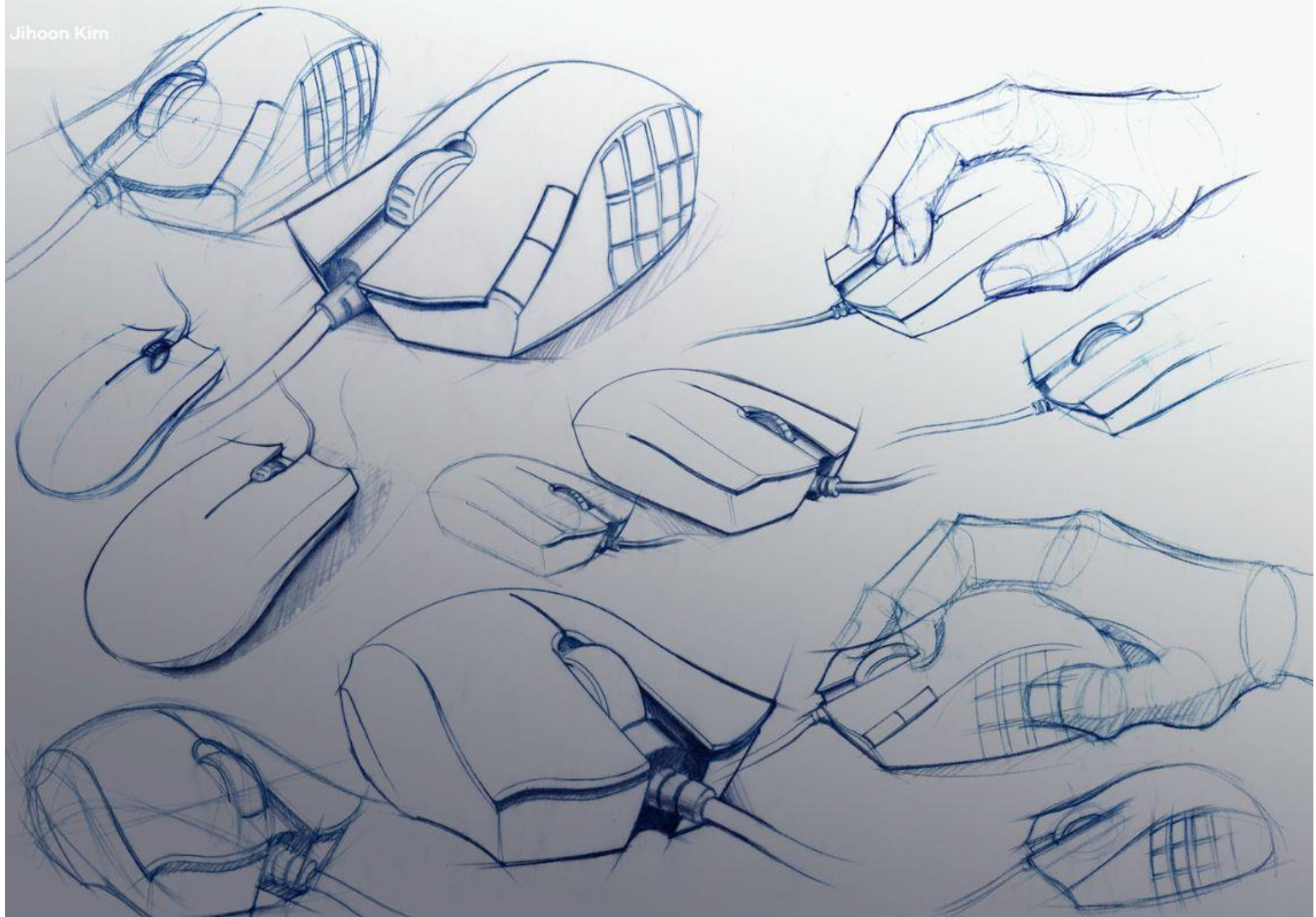


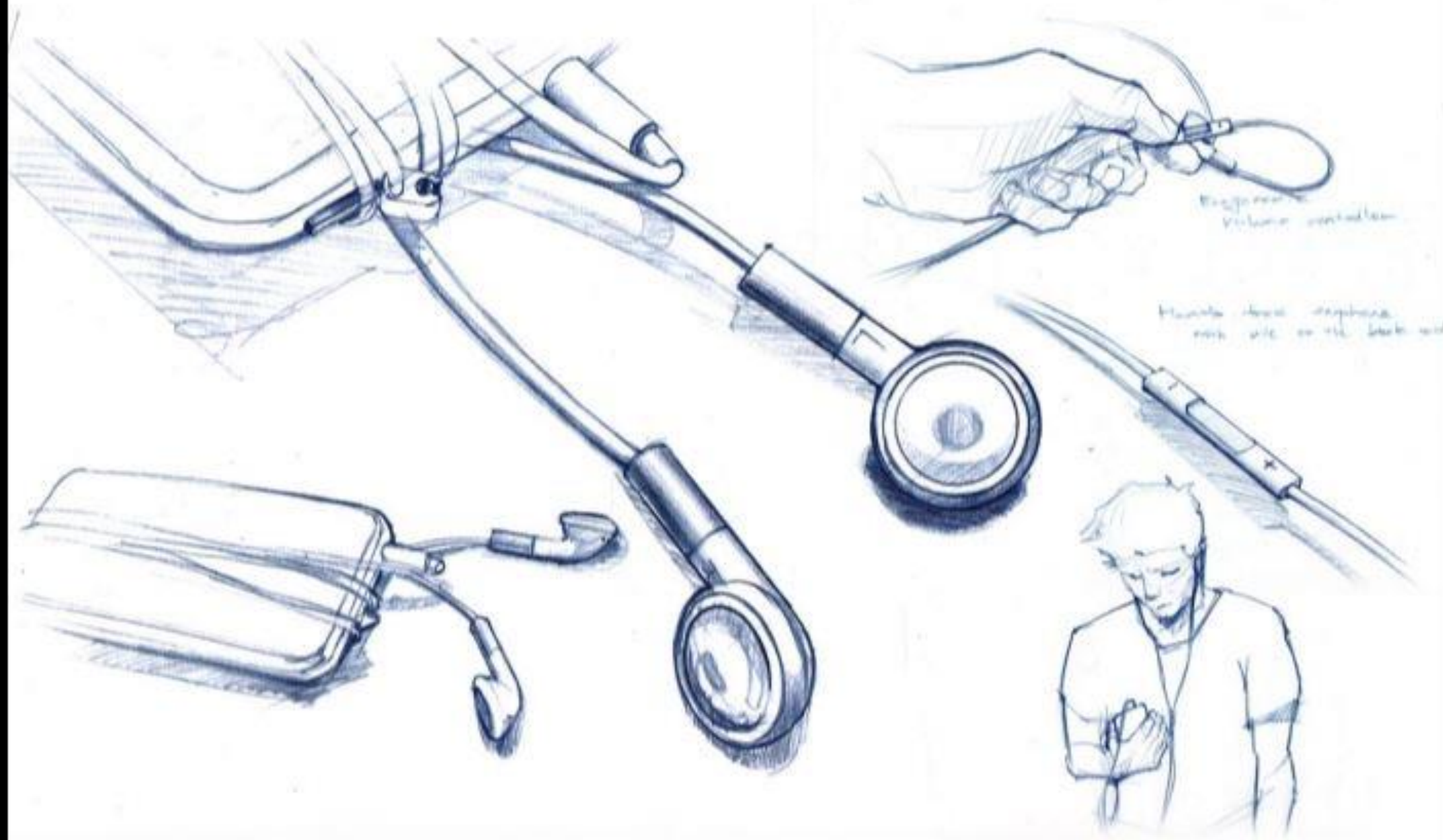


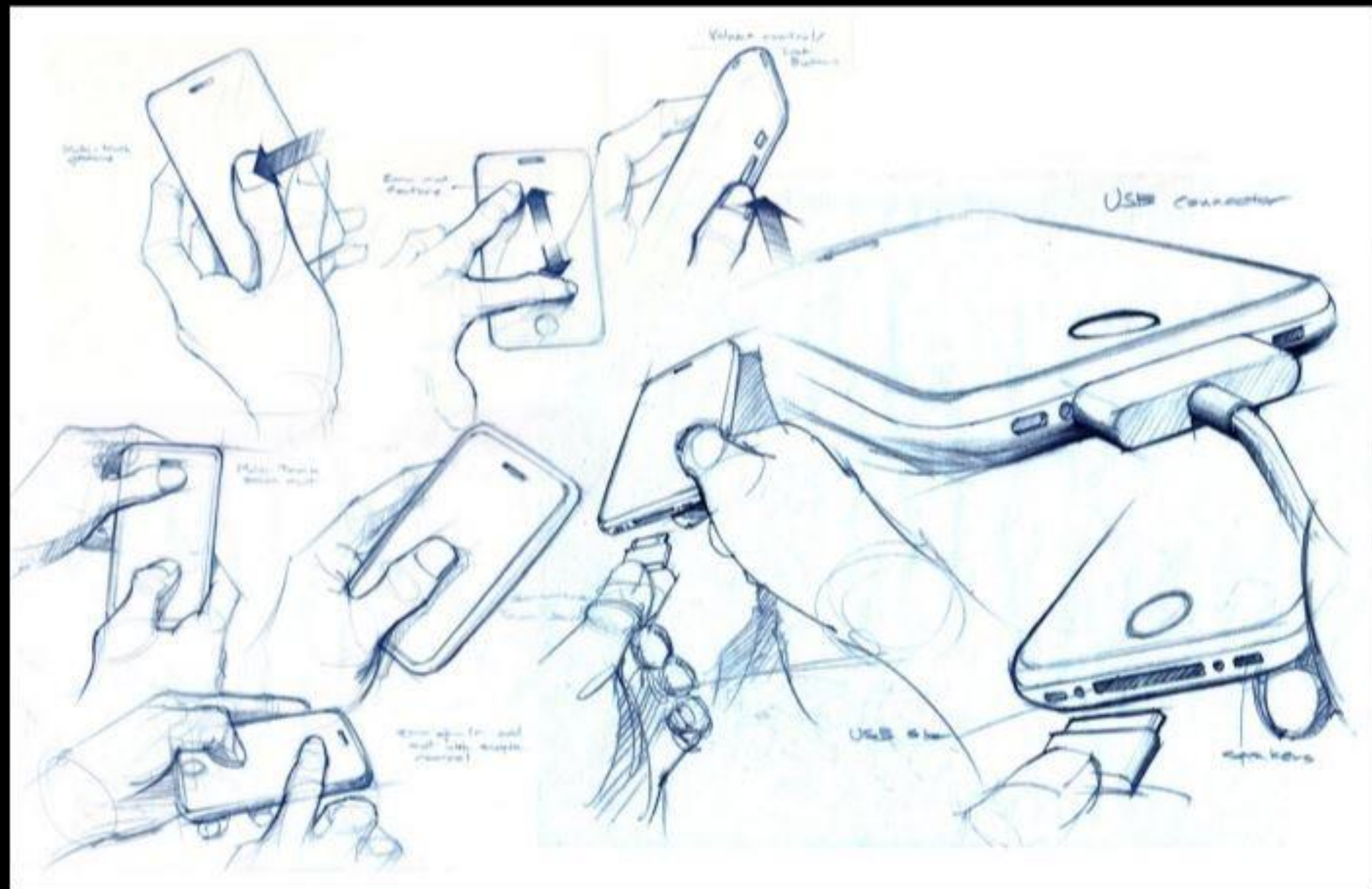


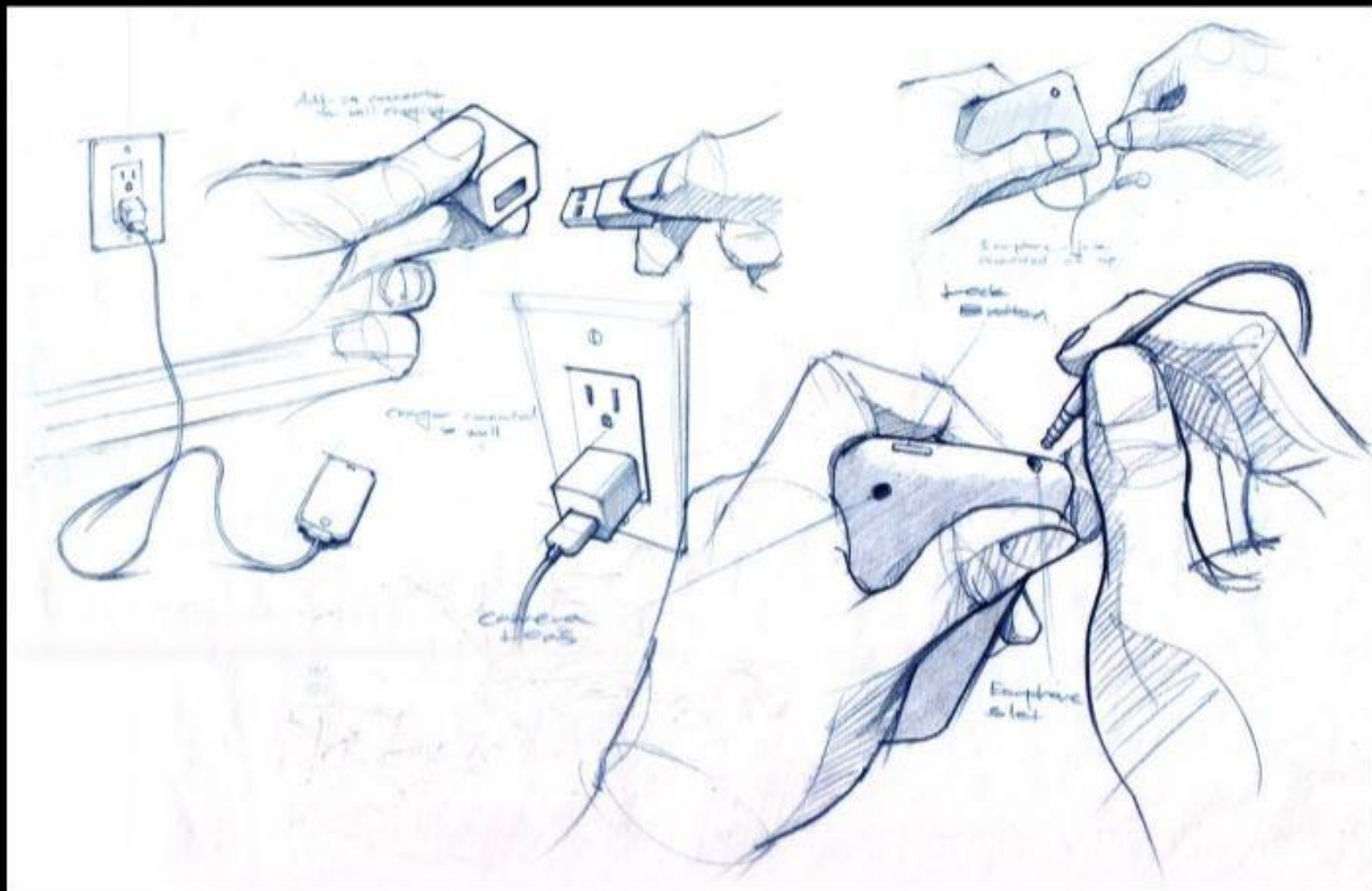


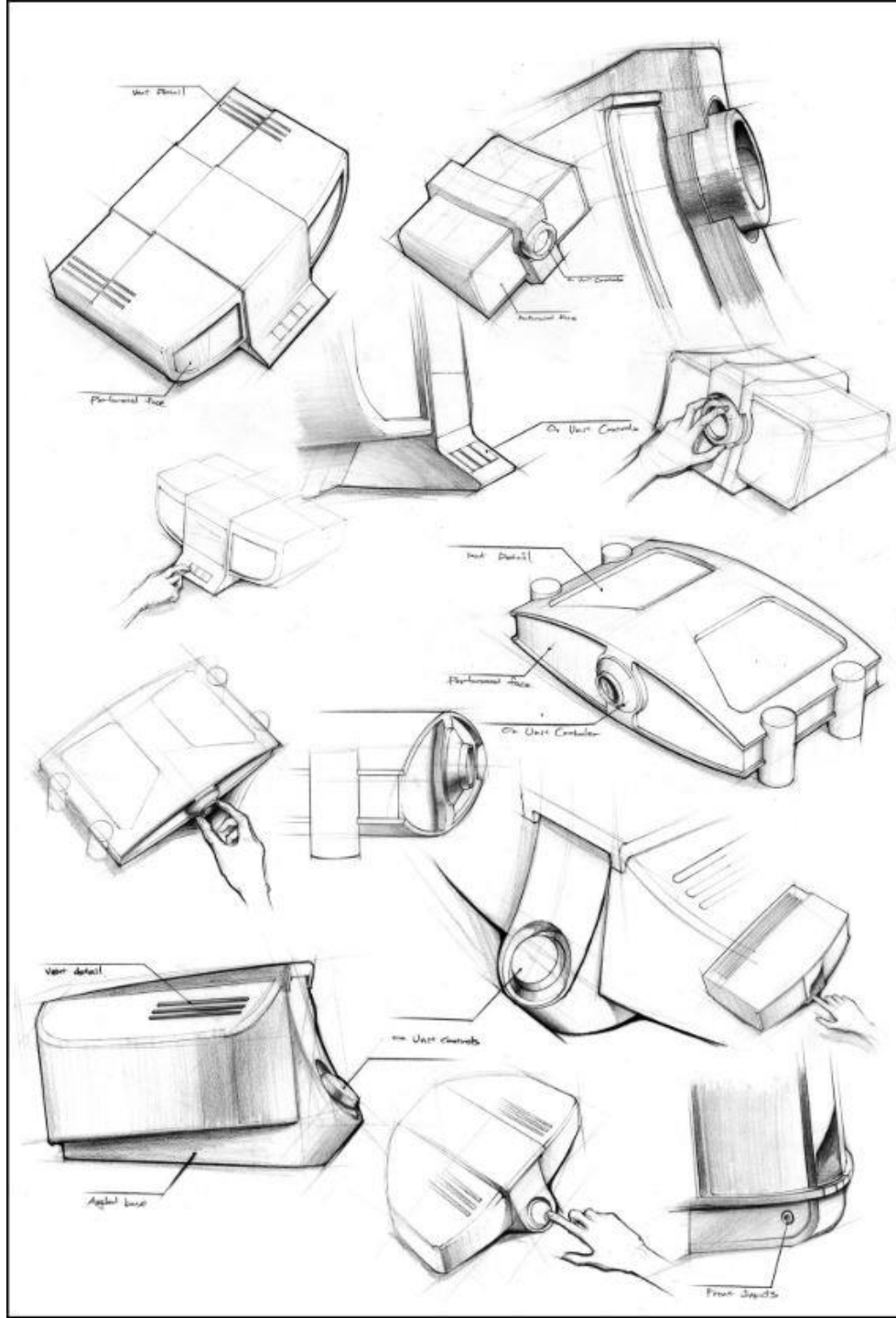




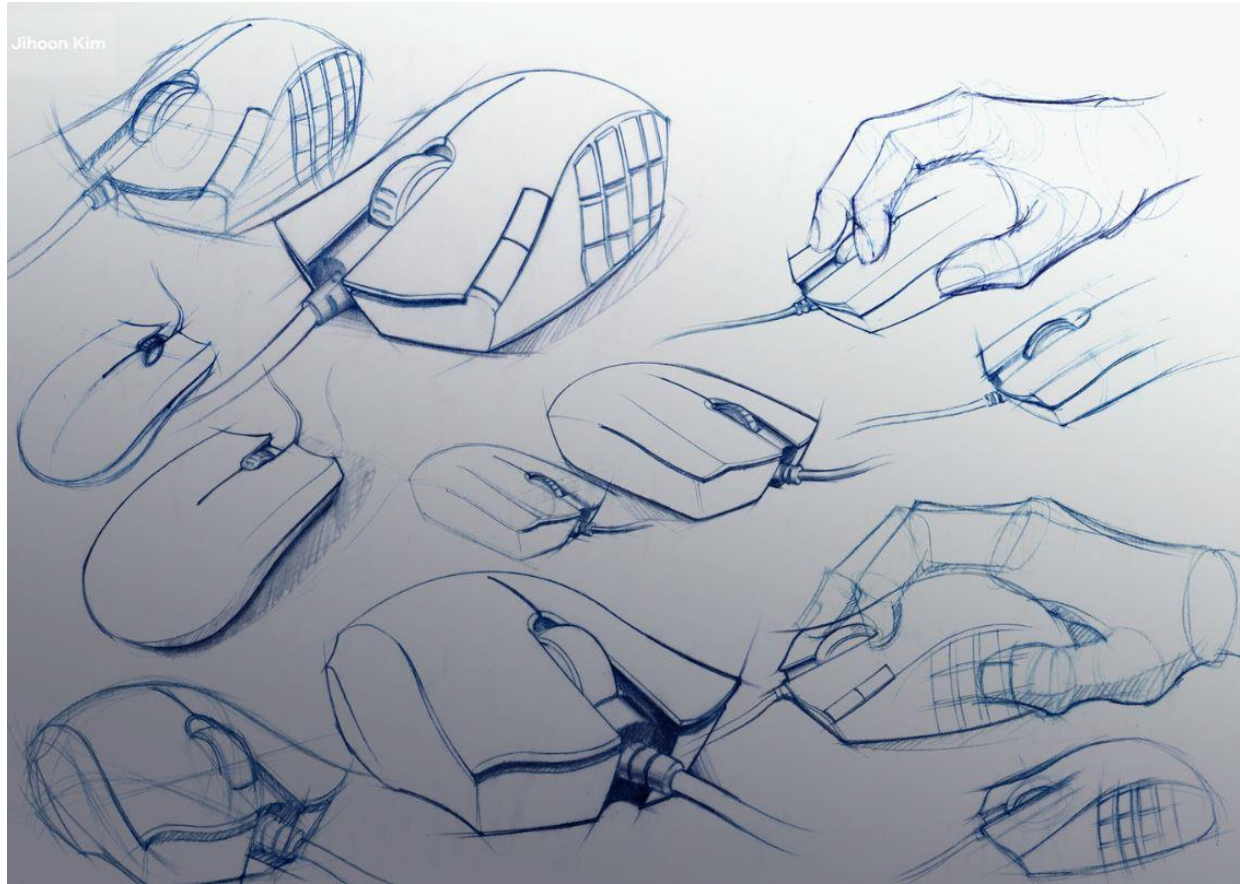








Mockup(草模) 請用PU材料磨一隻滑鼠尺寸自訂
(已自己的手為尺寸大小)
請先用Auto CAD畫出3視圖並標註尺寸-30%



107 Design skills

2. Computer mockup-3D ability (Rhino). .-1week.

- Rhino tutorial軟件教學 01 入門概念和界面介紹
- <https://youtu.be/xU56on0Fkp4>
-
- RHINO TUTORIAL - Basics session #1 of 6
- <https://youtu.be/kNTYQGqeg-w>
-
- HINO TUTORIAL - Basics session part #2 of 6
- <https://youtu.be/8nW8SsKcyqo>
-
- RHINO TUTORIAL - Basics session part #3 of 6
- https://youtu.be/___UdF0g1PVE
-
- RHINO TUTORIAL - Basics session part #4 of 6
- <https://youtu.be/7rH32f09Nn8>

107 Design skills

2. Computer mockup-3D ability (Rhino). .-1week.

- Rhino tutorial軟件教學 01 入門概念和界面介紹
- RHINO TUTORIAL - Basics session part #5 of 6
- <https://youtu.be/HXp-KK8McAI>
-
- RHINO TUTORIAL - Basics session part #6 of 6
- <https://youtu.be/faWqQyZsvOI>
-
- Rhino_Surface_Modeling.mp4
- <https://youtu.be/eR9EM5vqiT8>
-
- Control Point Editing
- <https://youtu.be/vWPT7VEWBzo>

107 Design skills

2. Computer mockup-3D colors and material (3D max). .-1week.

- 3ds Max 基礎教學 01：基礎物件建立
- <https://youtu.be/Afmel7i9Do0>
-
- 3ds Max 基礎教學 02：視角控制
- <https://youtu.be/wn87VLZXJAU>
-
- 3ds Max 基礎教學 03：物件移動、旋轉、縮放
- <https://youtu.be/TXyLWAqyAmo>
-
- 3ds Max 基礎教學 04：Viewport（視角）操作的兩個常見問題
- <https://youtu.be/6WTBTKFIZUA>
-
- 3ds Max 基礎教學 05：Material Editor（材質編輯器）簡介
- <https://youtu.be/P0BKJY3TGq8>

107 Design skills

2. Computer mockup-3D colors and material (3D max). .-2week.

- 3ds Max 基礎教學 06：模型貼圖基本概念
- <https://youtu.be/0i73oquOW2M>
- 第6章 第1节 1.材质编辑器介绍 [3ds Max 2011白金手冊]
- <https://youtu.be/uycGx9mn3BY>
- 實做範例:
- 1.使用 3ds Max 製作抱枕30%
- https://youtu.be/yYSKZ7T5_a8
- 2. 3DsMax 西洋棋 馬的製作10%
- <https://youtu.be/cMP9syp1INQ>

107 Design skills

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- 請參考：<https://youtu.be/9SofJmP40z0>

Design Application（開始於第9周至第15周）

- 1. 兒童餐盤餐具設計
- 2. 陪小朋友吃飯的
- 公仔設計
- 實做場域台中小島3.5度親子
- 餐廳(實際至台中參訪)



Design Application

餐盤含湯碗
(還有餐具亦含點心盤)



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Design Application

餐盤含湯碗

（還有餐具亦含點心盤）



Design Application

點心盤



Design Application

- 茶杯
- (杯具)



Design Application

儲藏空間（模擬儲藏架）



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Design Application

儲藏空間（模擬儲藏架）



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Design Application

儲藏空間（模擬廚房） -
辦家家酒



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Design Application

儲藏空間（模擬廚房） -
辦家家酒



Design Application

儲藏空間（模擬廚房） -
辦家家酒

