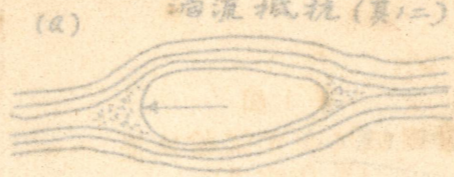
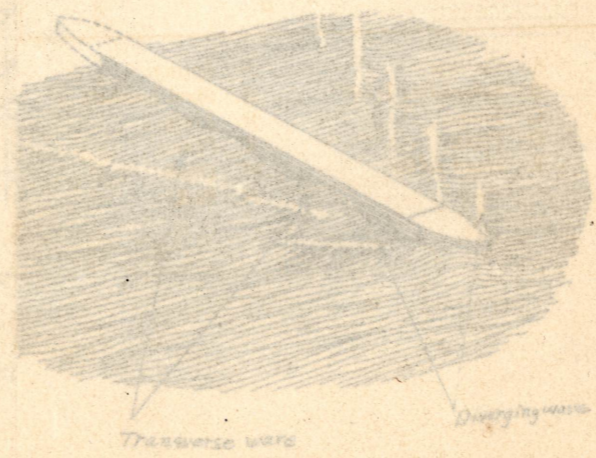
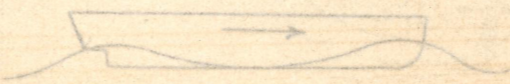


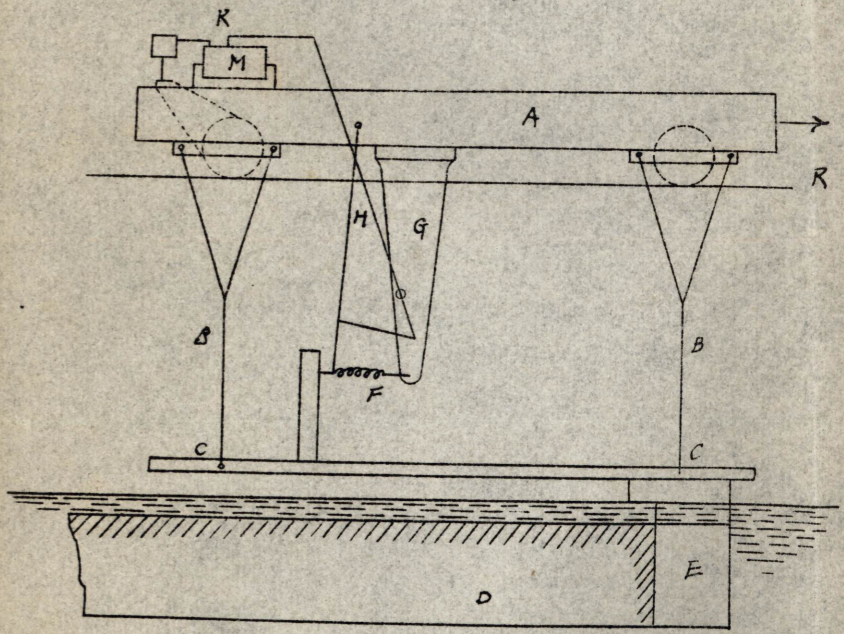
第3圖
渦流抵抗(其二)



第4圖
逆波抵抗
Bow wave and stern wave

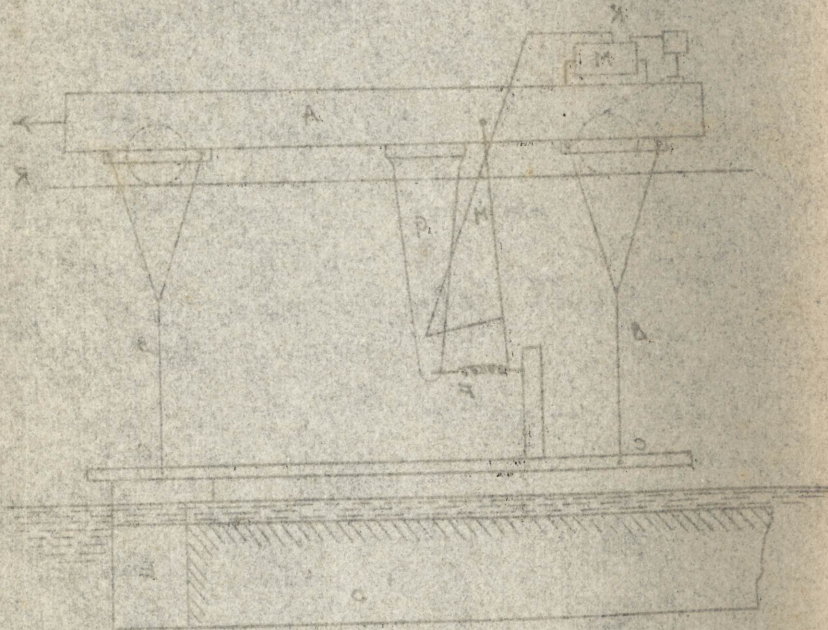


第1圖
摩擦抵抗測定試驗裝置
(W. Froude 氏)



- | | |
|---------------------|-------------------|
| A. Carriage. | F. Spring. |
| B. Suspending lever | G. Stout bracket. |
| C. Frame | H. Link |
| D. Plank | K. Pencil. |
| E. Head cutter | M. Drum. |
| | R. Rail. |

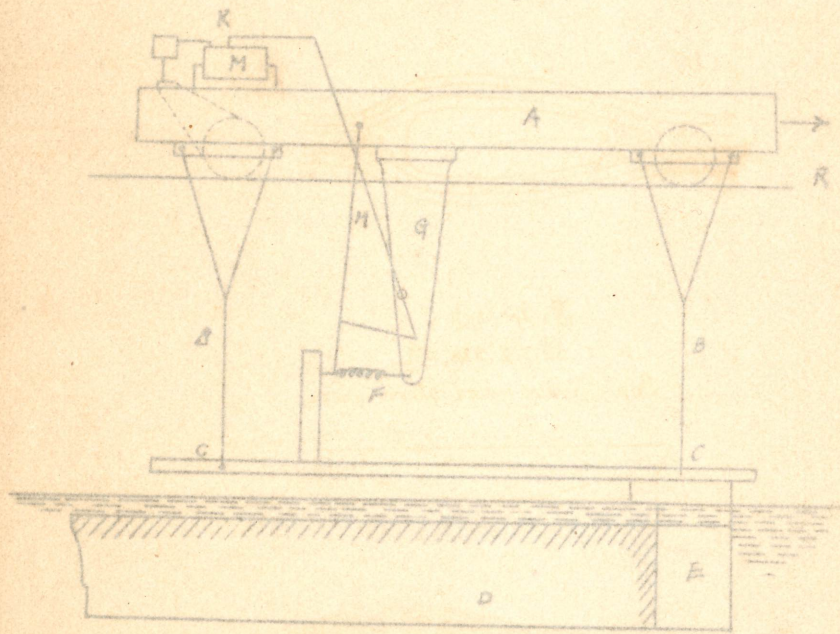
圖 1 某
置 設 鏡 箱 及 照 相 機 之 概 略
(W. Taylor)



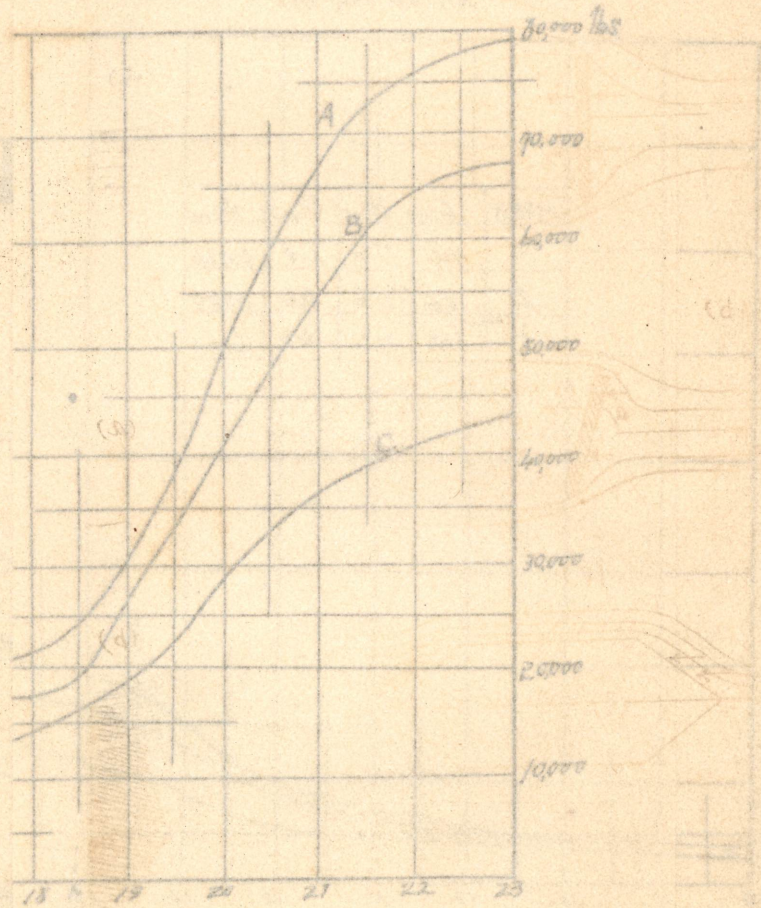
- | | |
|---------------------|------------------|
| A. Camera | F. Spring |
| B. Supporting lever | G. Stool bracket |
| C. Frame | H. Lens |
| D. Plate | K. Rod |
| E. Head holder | M. Drum |
| | N. Rail |



第1圖
 摩擦抵抗測定試驗裝置
 (W. Froude 氏)

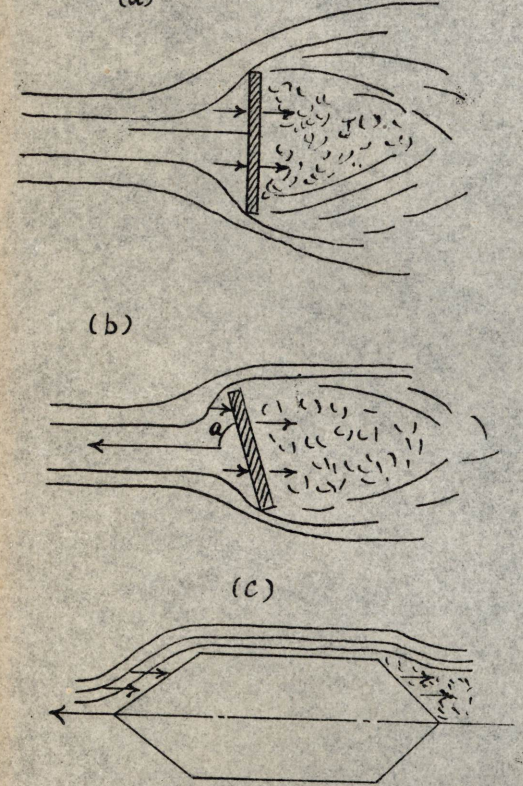


- | | |
|----------------------|-------------------|
| A. Carriage. | F. Spring. |
| B. Suspending lever. | G. Stout bracket. |
| C. Frame. | H. Link. |
| D. Plank. | K. Drum. |
| E. Head cutter. | M. Drum. |
| | R. Rail. |



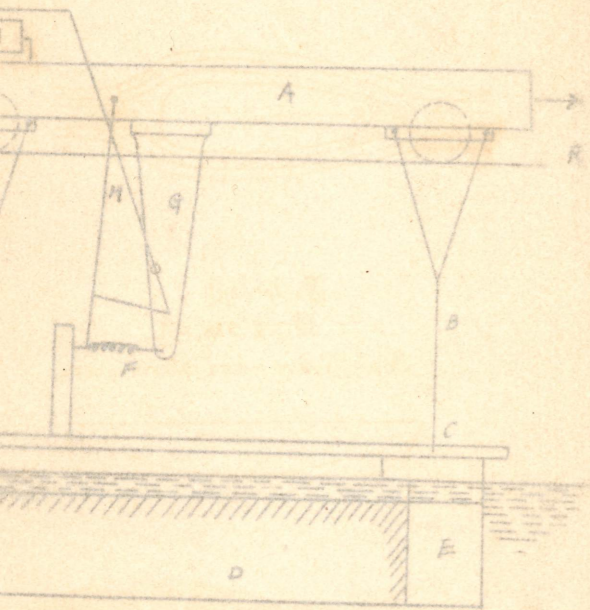
Current speed

第2圖
 渦流抵抗 (其一)

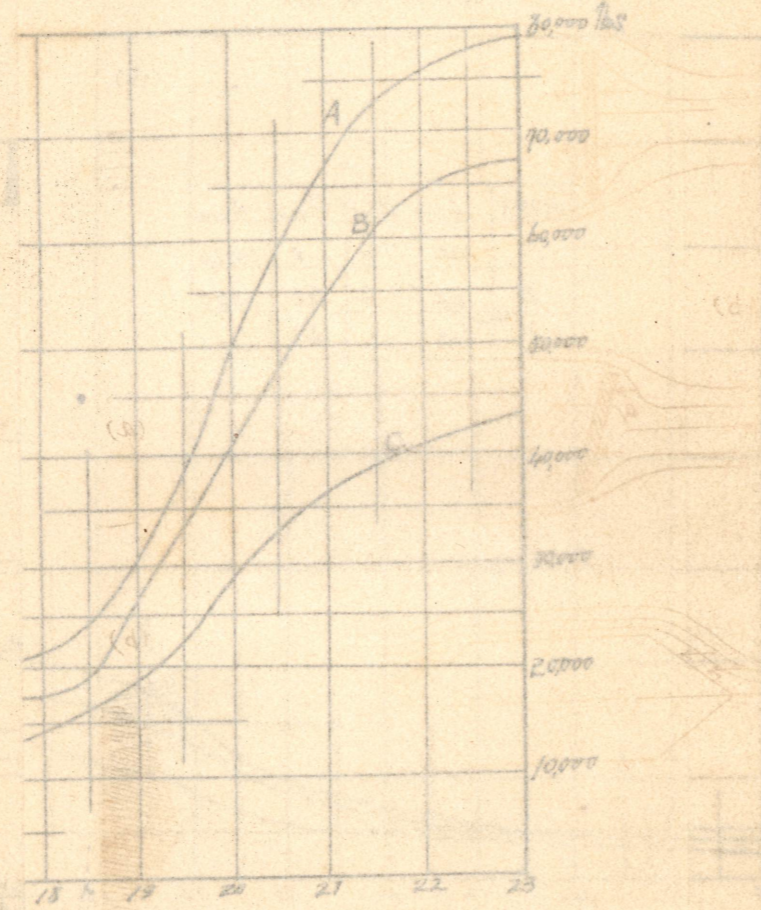


第1圖

浮標抵抗測定試驗裝置
(W. Froude 氏)



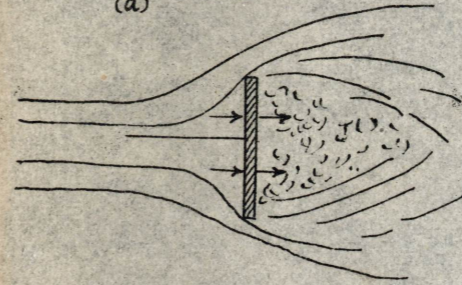
- Carriage.
- Suspending lever
- Frame
- Plank
- Head cutter
- F. Spring.
- G. Stout bracket.
- H. Link.
- K. Pencil.
- M. Drum.
- R. Rail.



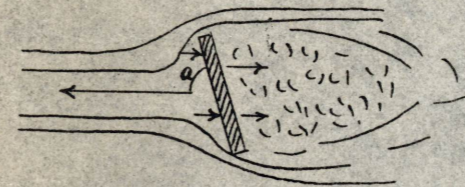
critical speed

第2圖

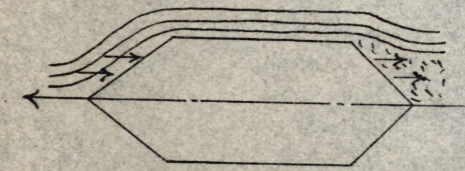
(a) 渦流抵抗 (其一)



(b)



(c)

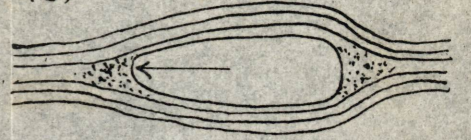


第3圖

渦流抵抗 (其二)



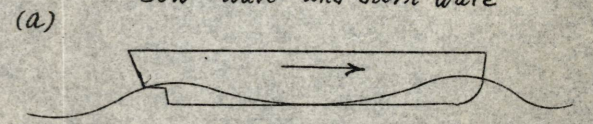
(b)



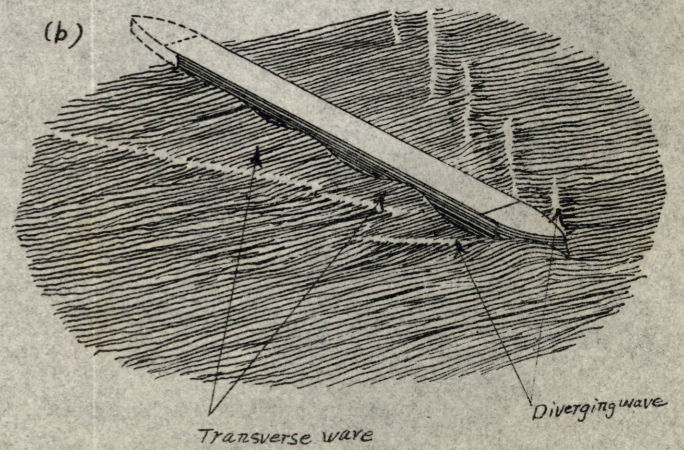
第4圖

造波抵抗

Bow wave and stern wave



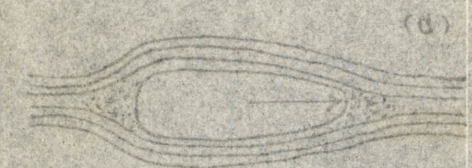
(b)



第九圖
（正）其 針 狀 流 線



(a)



(b)

第十圖
其 針 狀 流 線
From wire and glass work

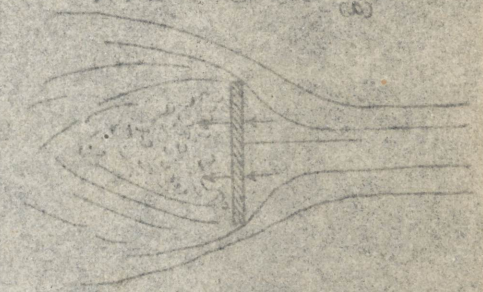


(c)



(d)

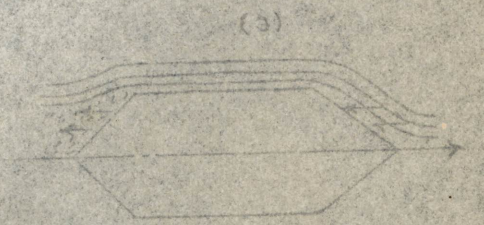
第九圖
（正）其 針 狀 流 線



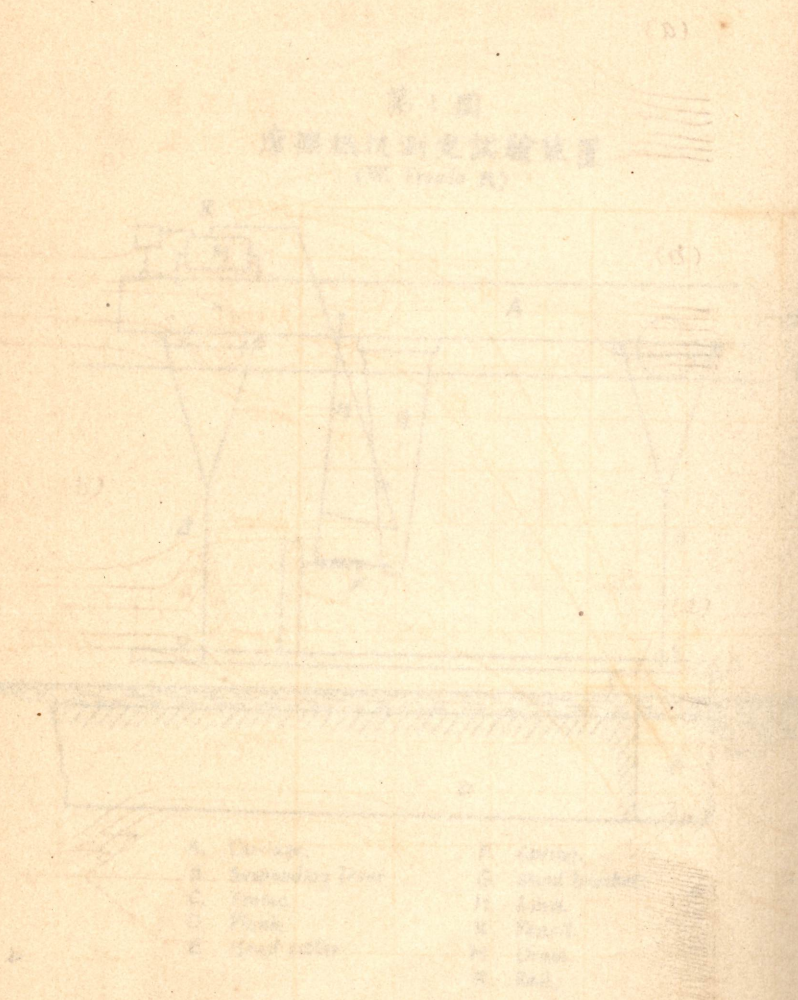
(a)



(b)

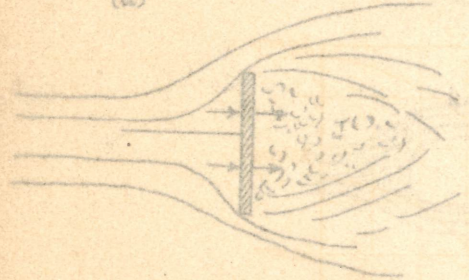


(c)



- A. ...
- B. ...
- C. ...
- D. ...
- E. ...
- F. ...
- G. ...
- H. ...

第2圖
渦流抵抗 (其一)



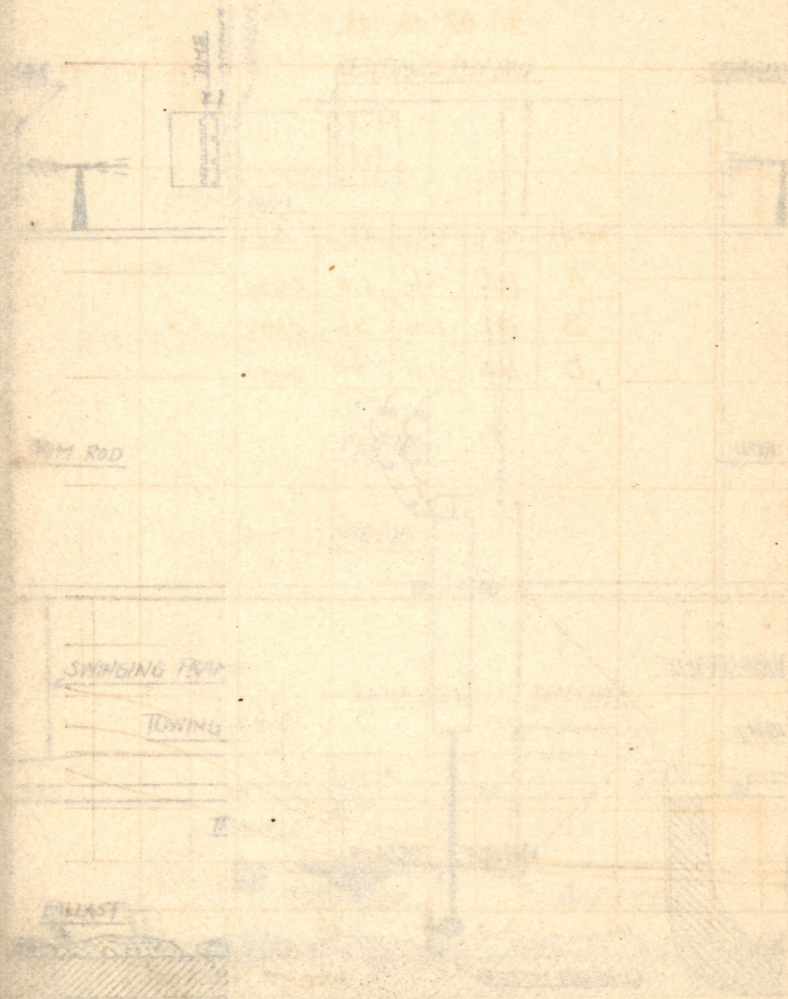
(b)



(c)

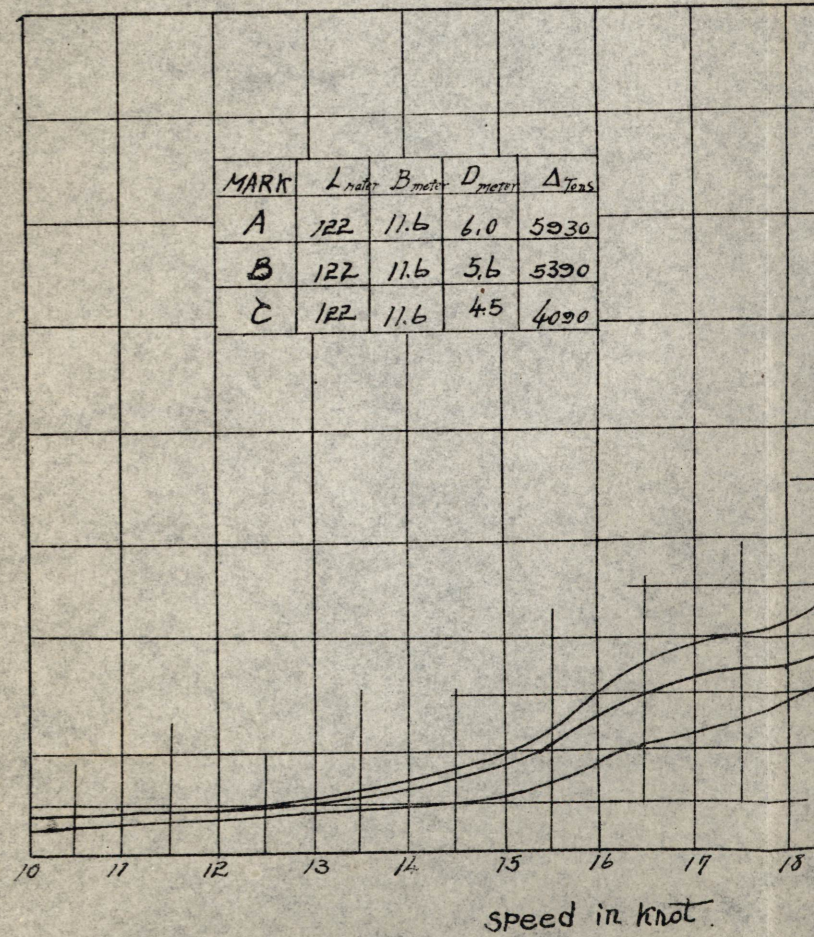


第4圖
船型試驗裝置

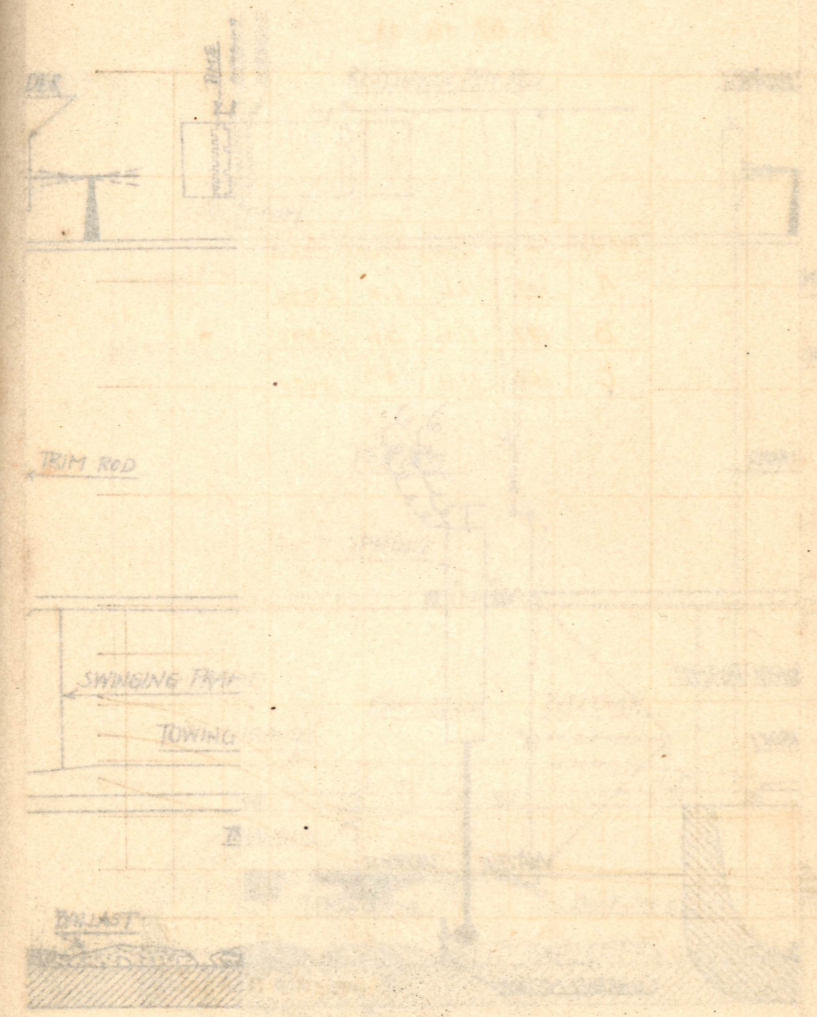


第5圖
剩餘抵抗

L 船艙距離
B Max Breadth
D 吃水(平均)
Δ 排水量



第6圖
船隻試驗裝置



第5圖
剩餘抵抗

L 船身距離
B Max Breadth
D 吃水(平均)
Δ 排水量

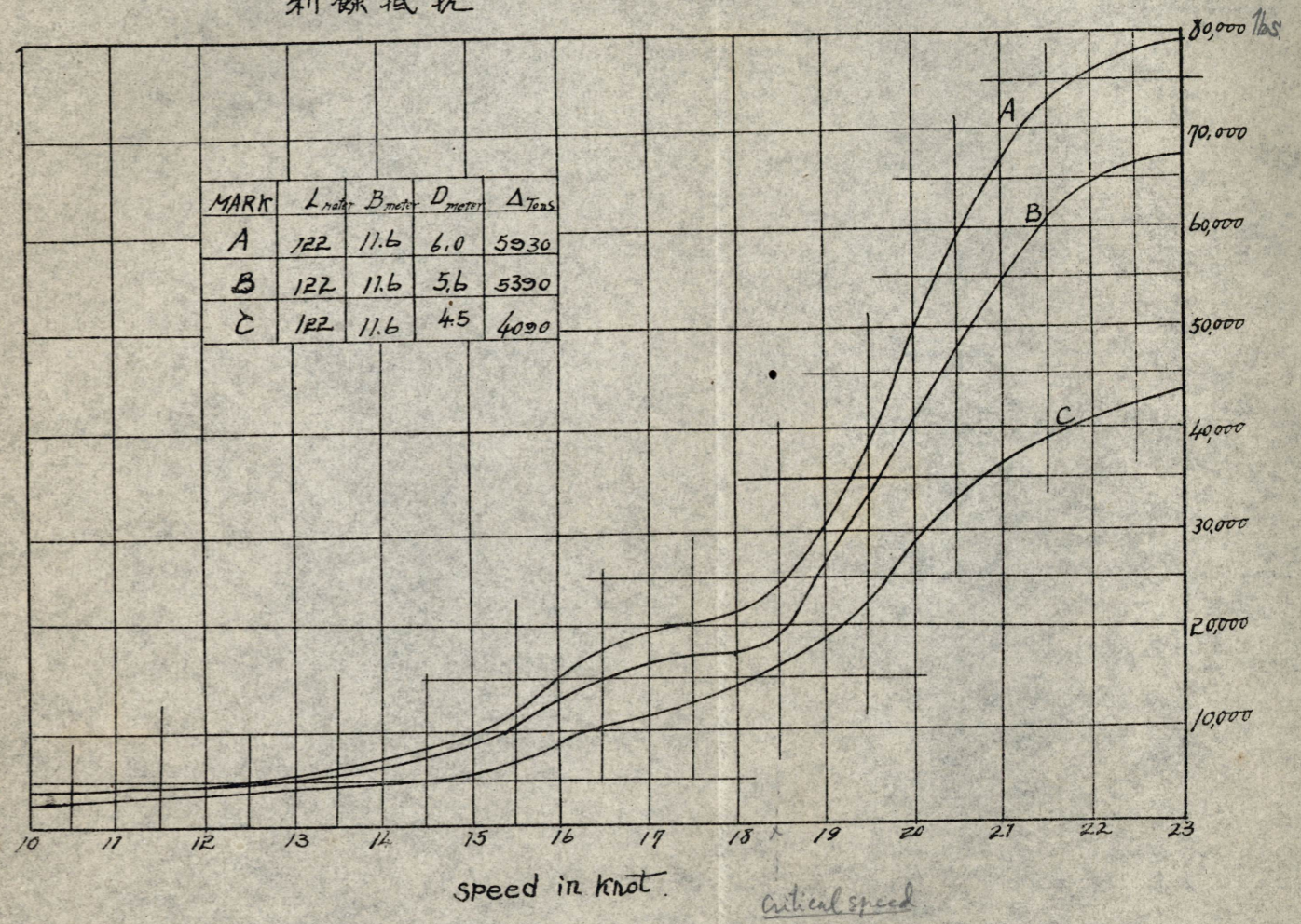
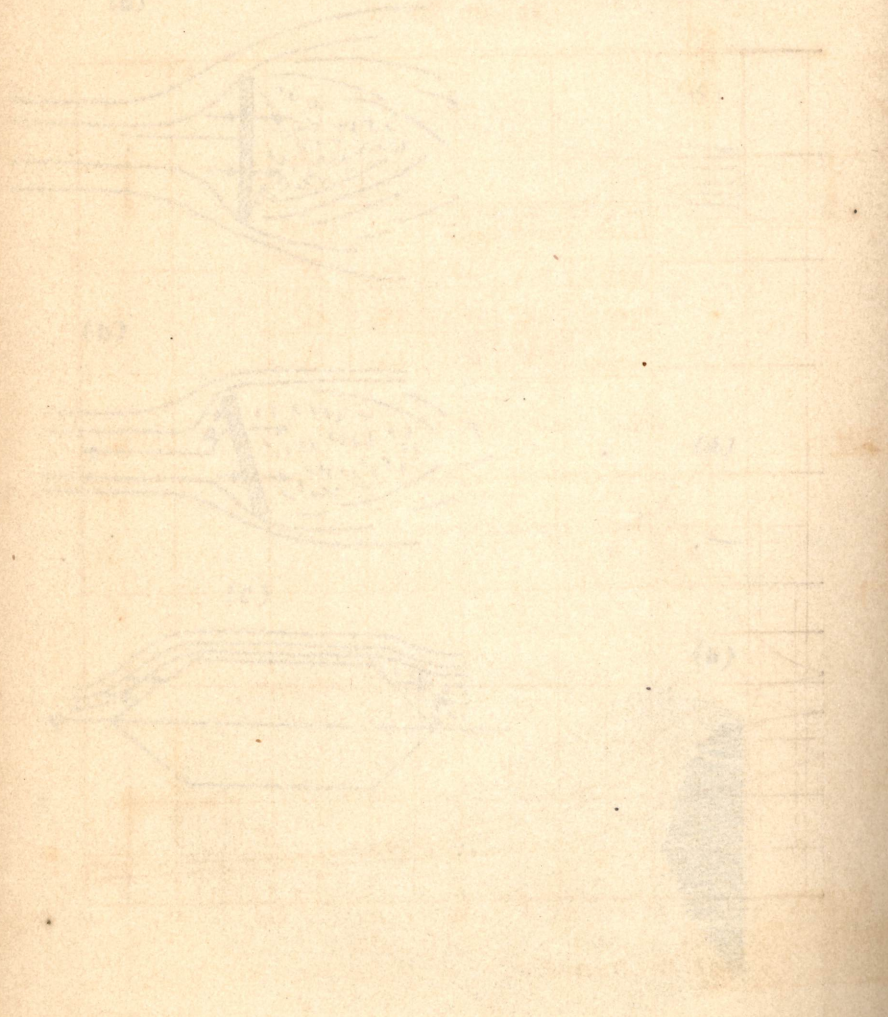
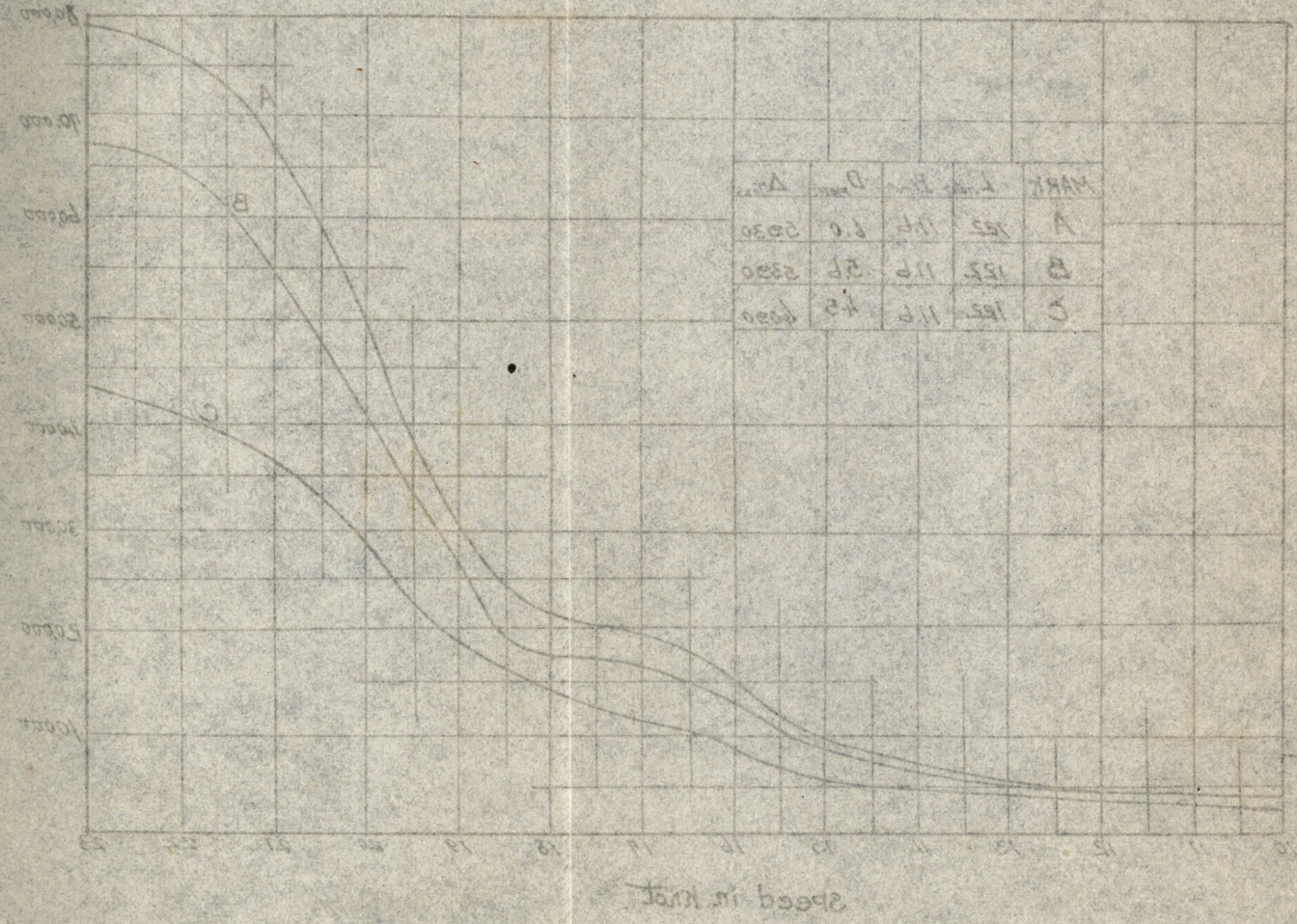


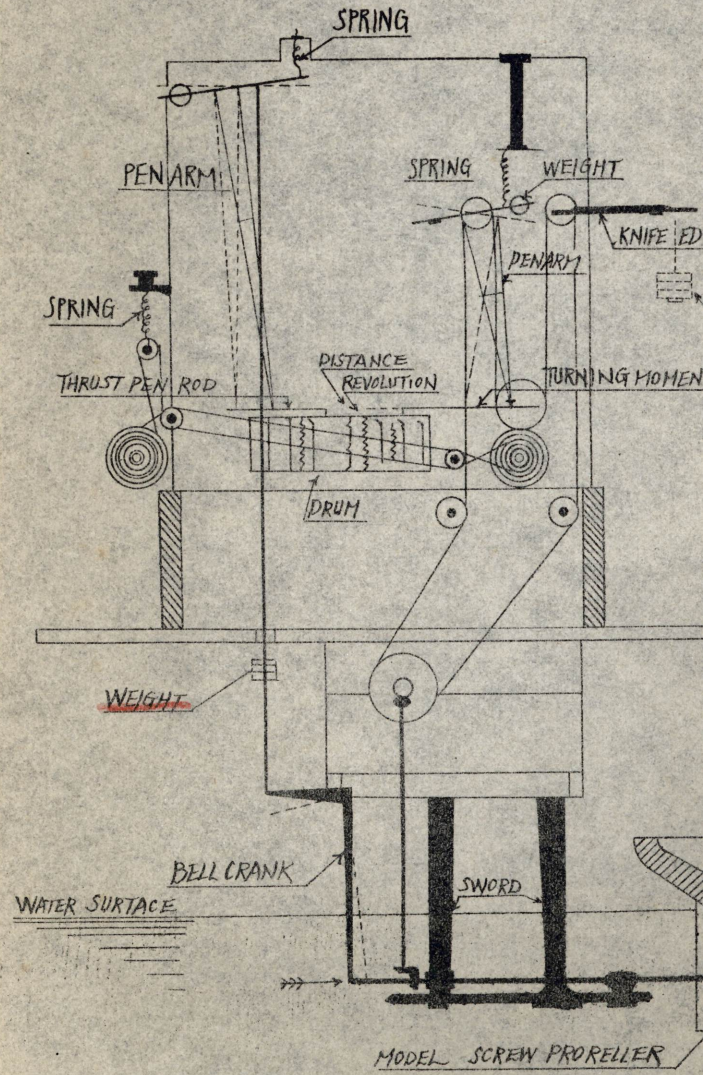
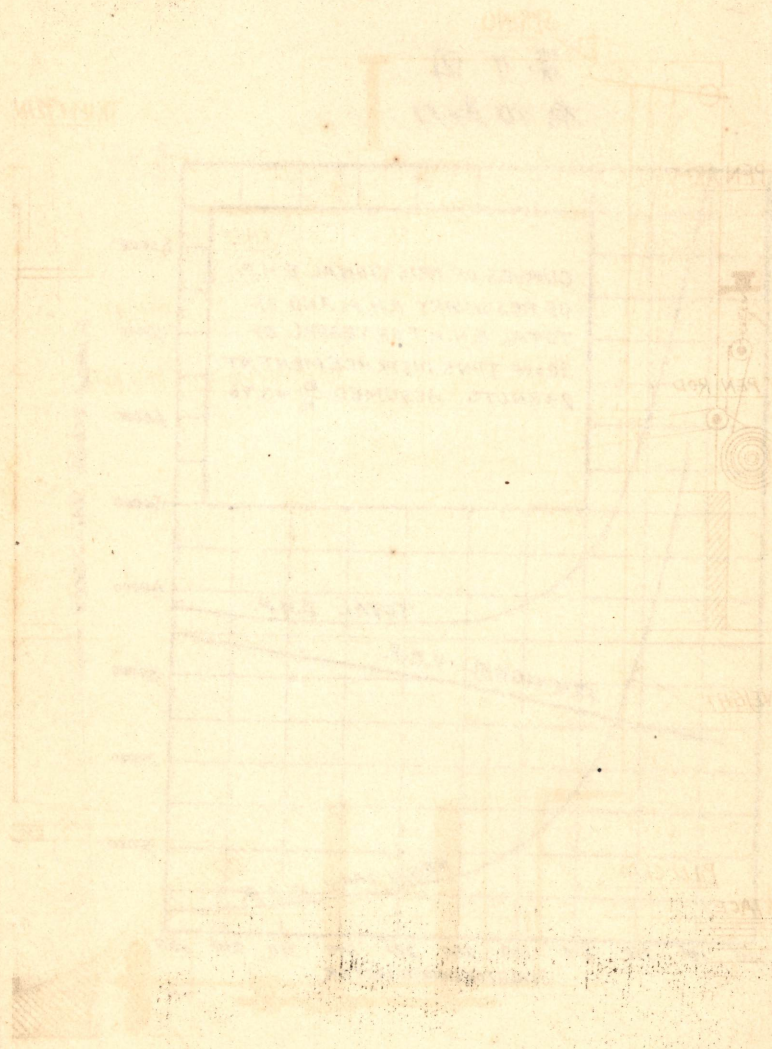
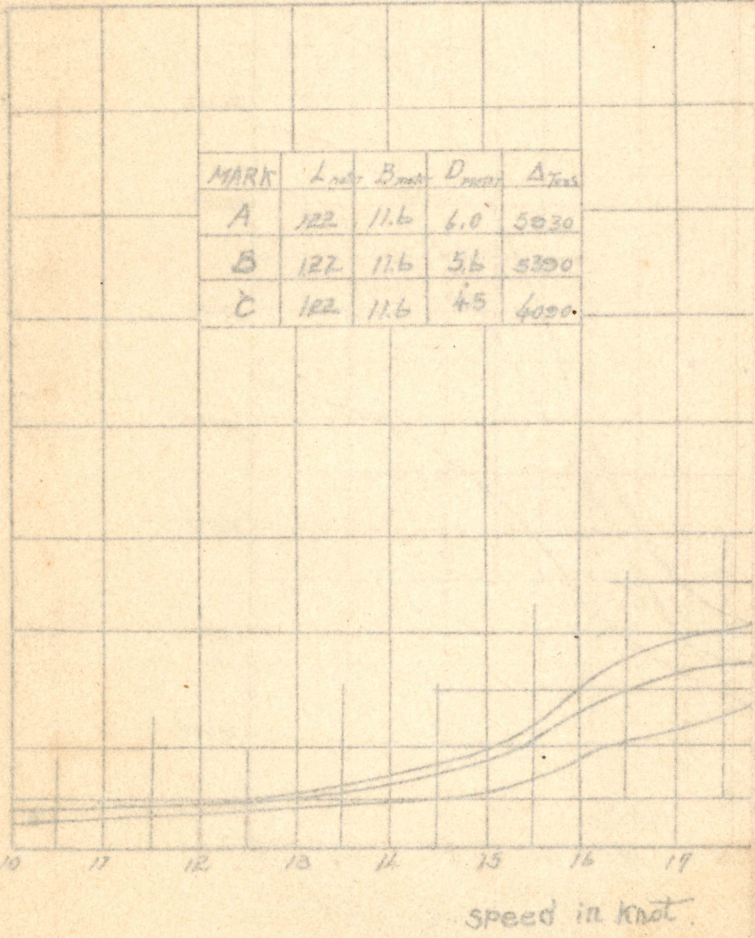
圖 5
性能曲线



第5圖
剩餘抵抗

- L. 量筒內距離
- B. Max breadth
- D. 吃水(呎)
- Δ. 排水量

MARK	L	B	D	Δ
A	122	11.6	6.0	5830
B	122	11.6	5.6	5390
C	122	11.6	4.5	4090

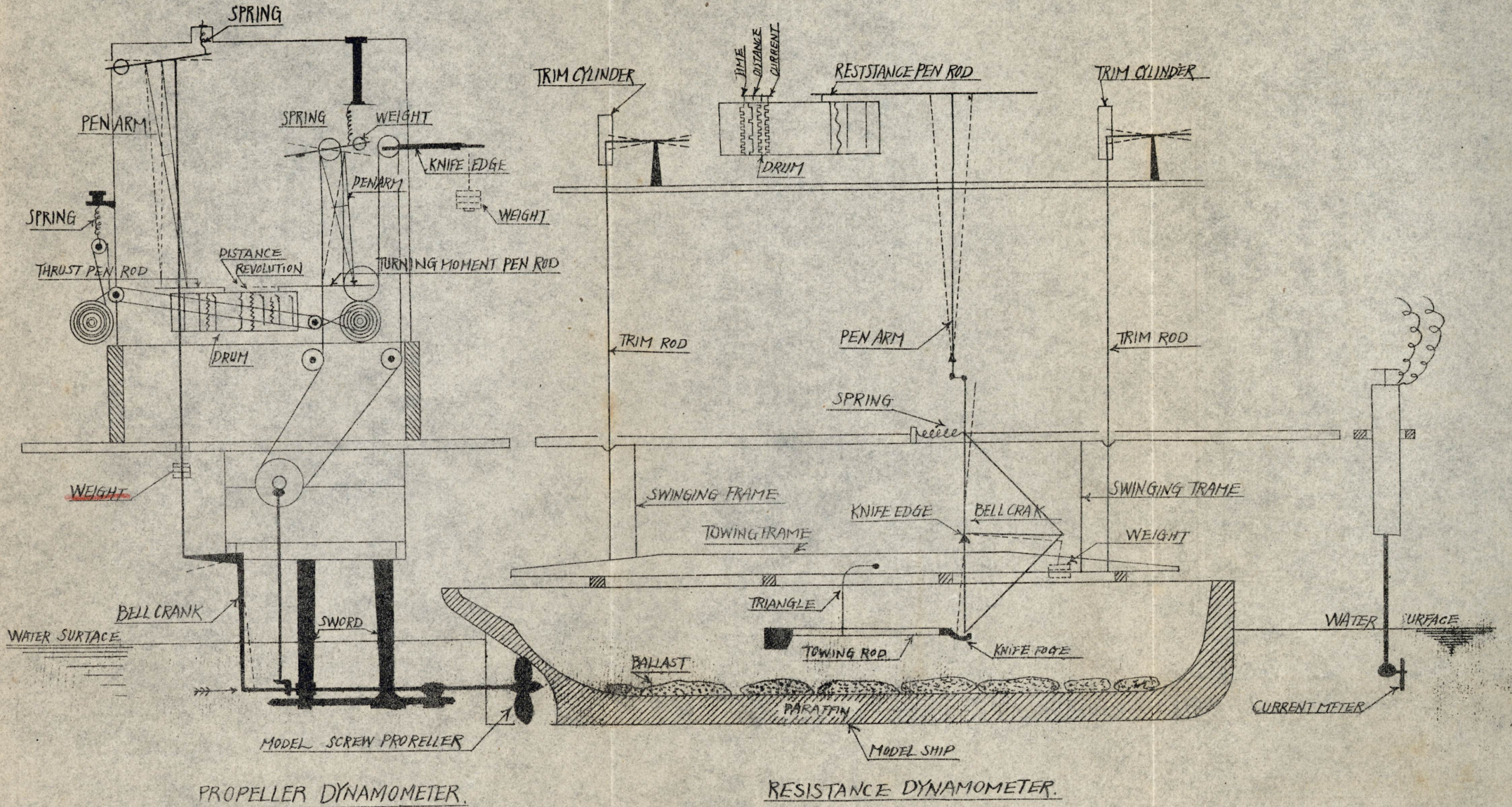


Y. P. M
Thrust
Torque = $(T_2 - T_1) \times R$

PROPELLER DYNAMOMETER.

Y. p. m
 Thrust
 $Torque = (T_2 - T_1) \times R$

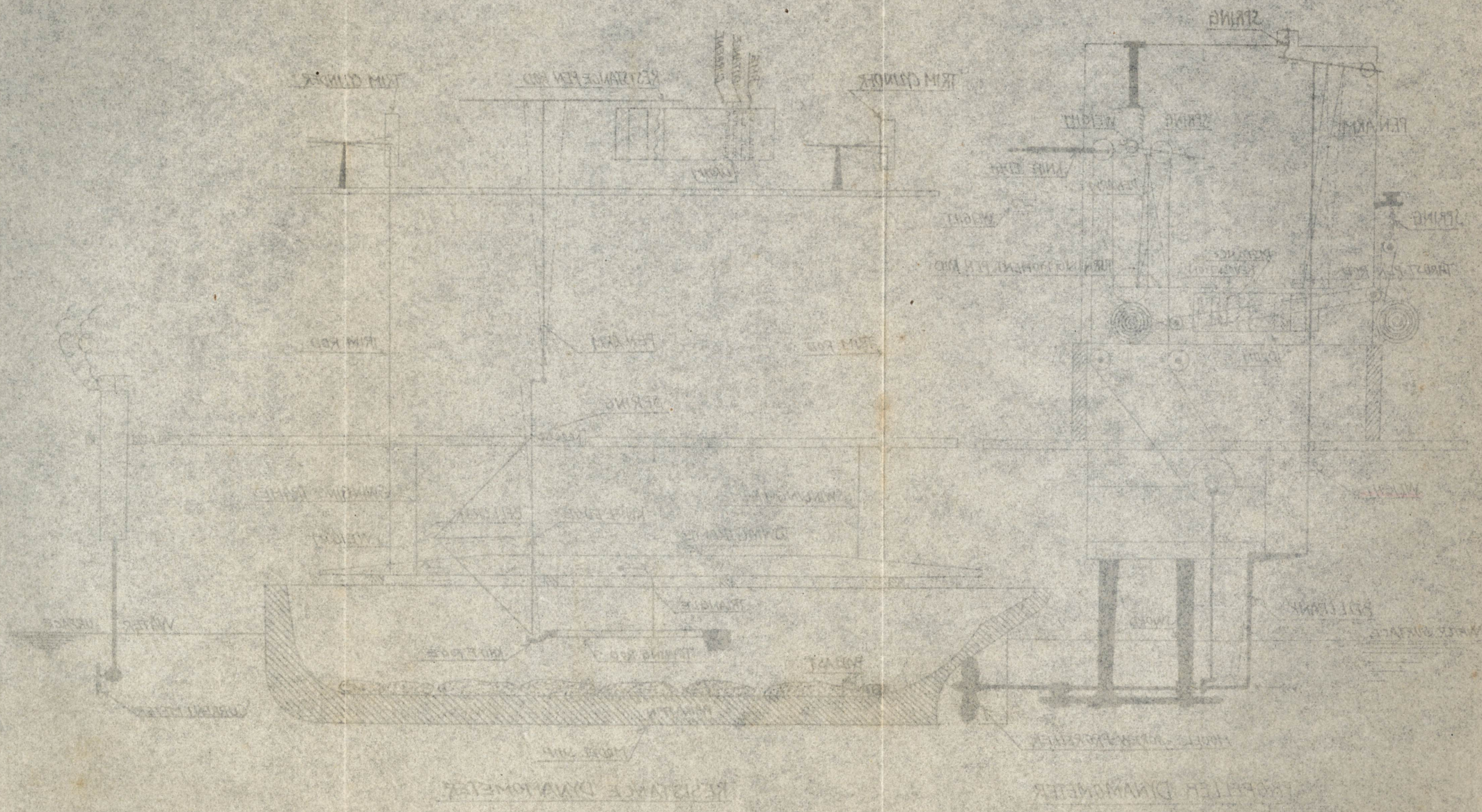
第 6 回
 船型試驗裝置



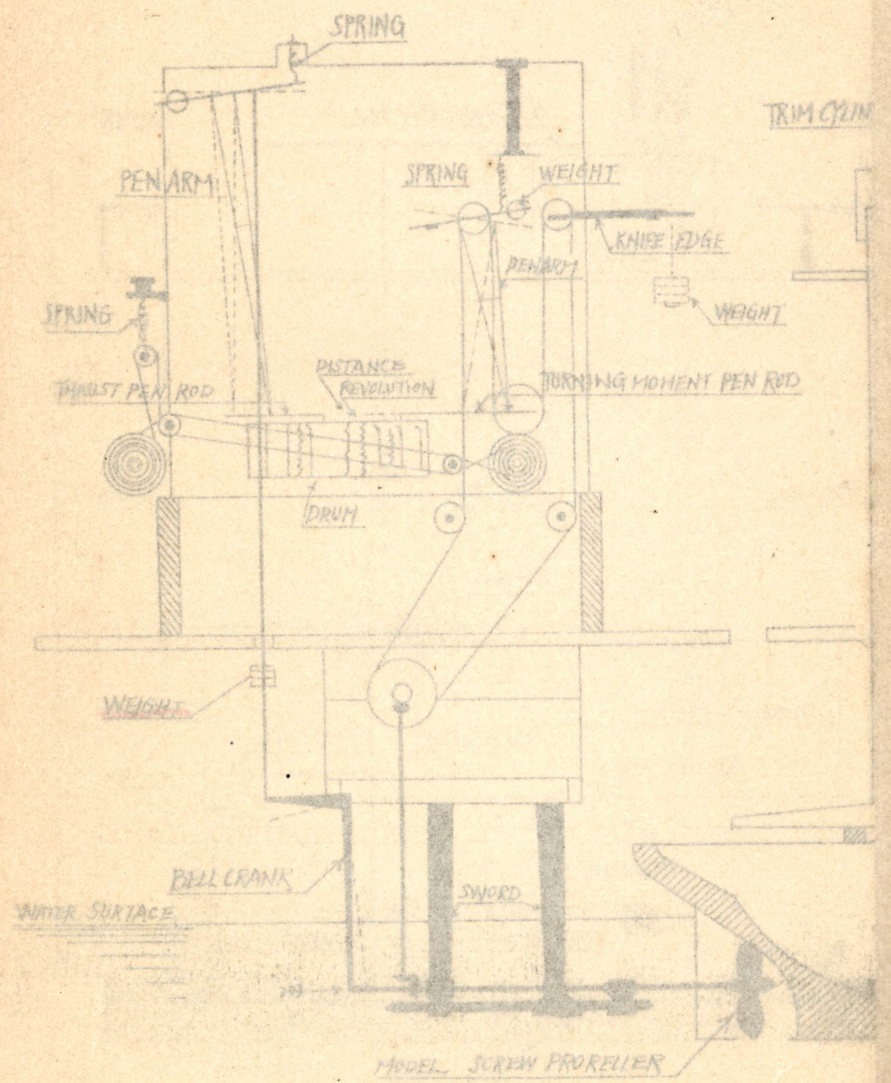
PROPELLER DYNAMOMETER.

RESISTANCE DYNAMOMETER.

圖 4
噴射機噴射機

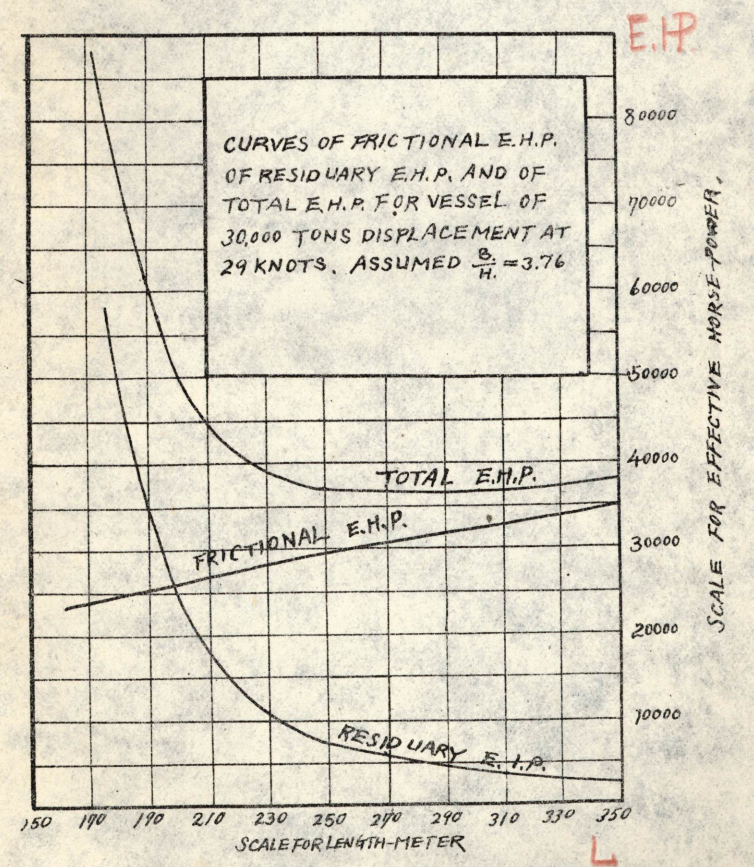


Torque = $(T_2 - T_1) \times R$



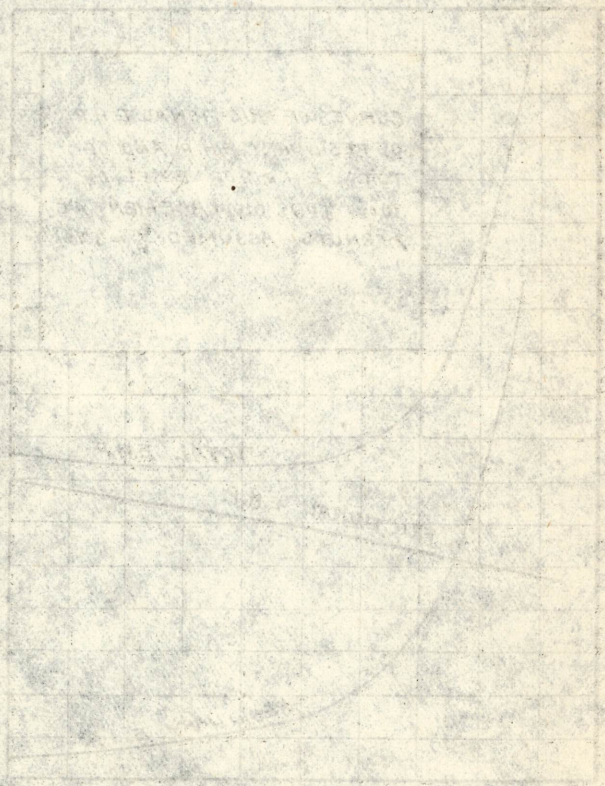
PROPELLER DYNAMOMETER

第7回
有効馬力

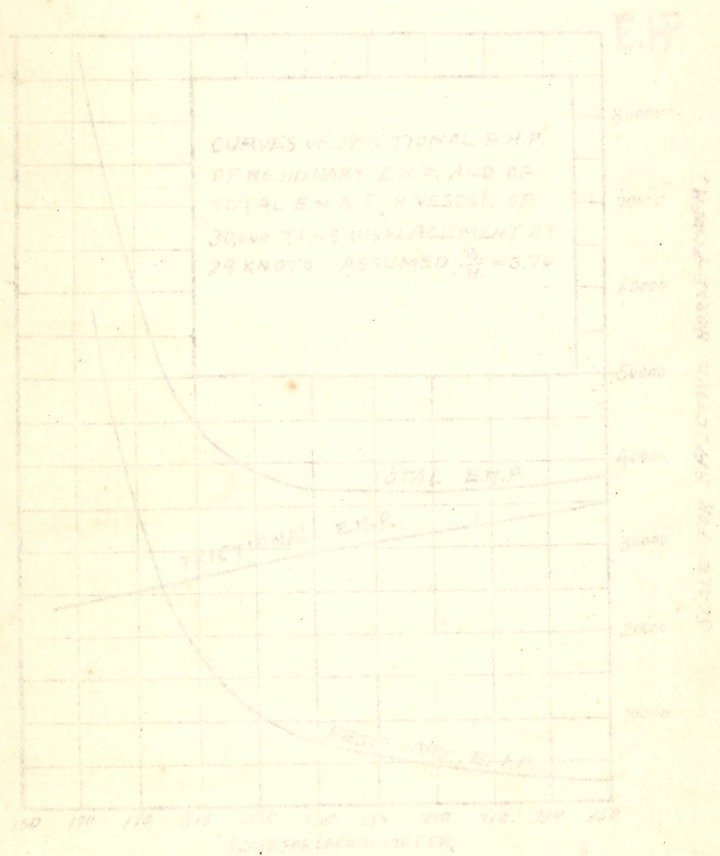


推
 進
 主

Figure 1
 of the

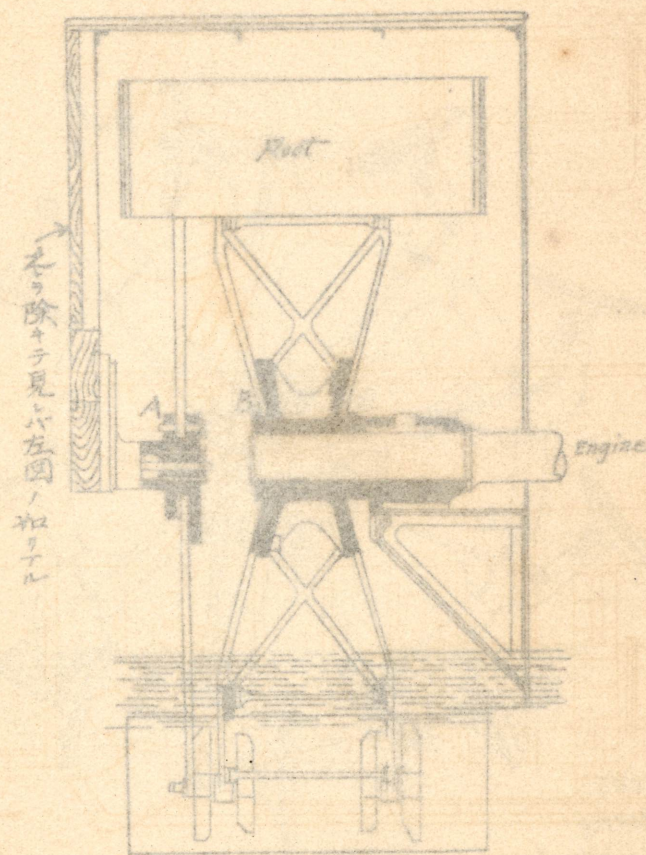


第7圖
船効力



圖

式推進機



第8圖

Thornycroft 噴射式推進裝置 (水電船)

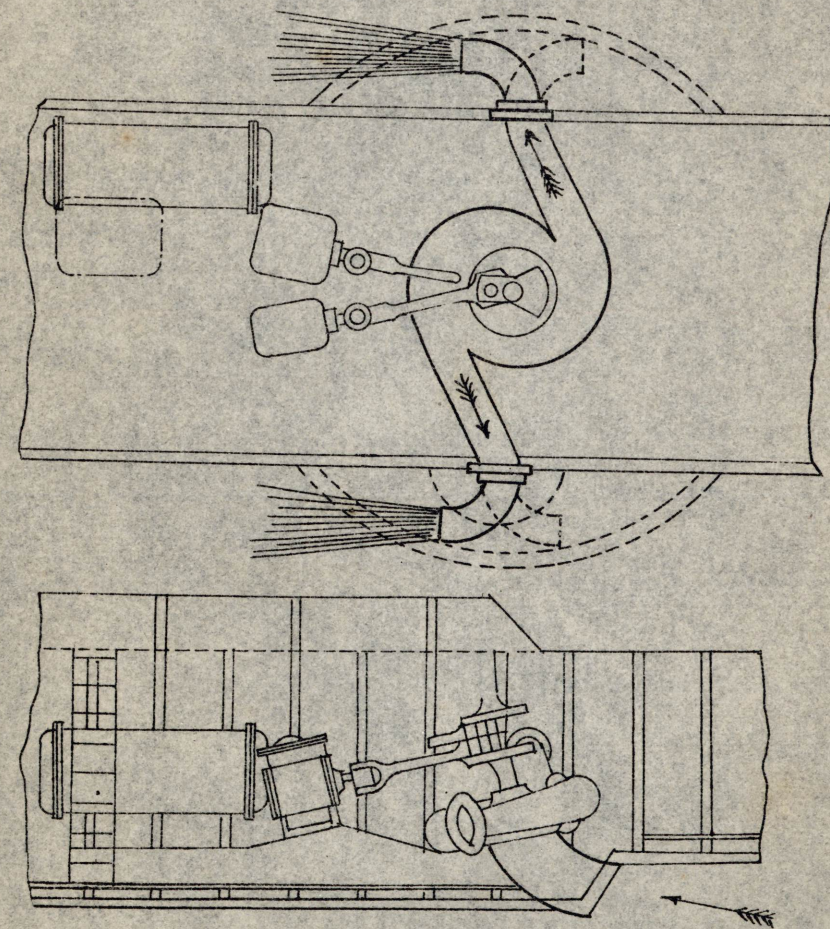
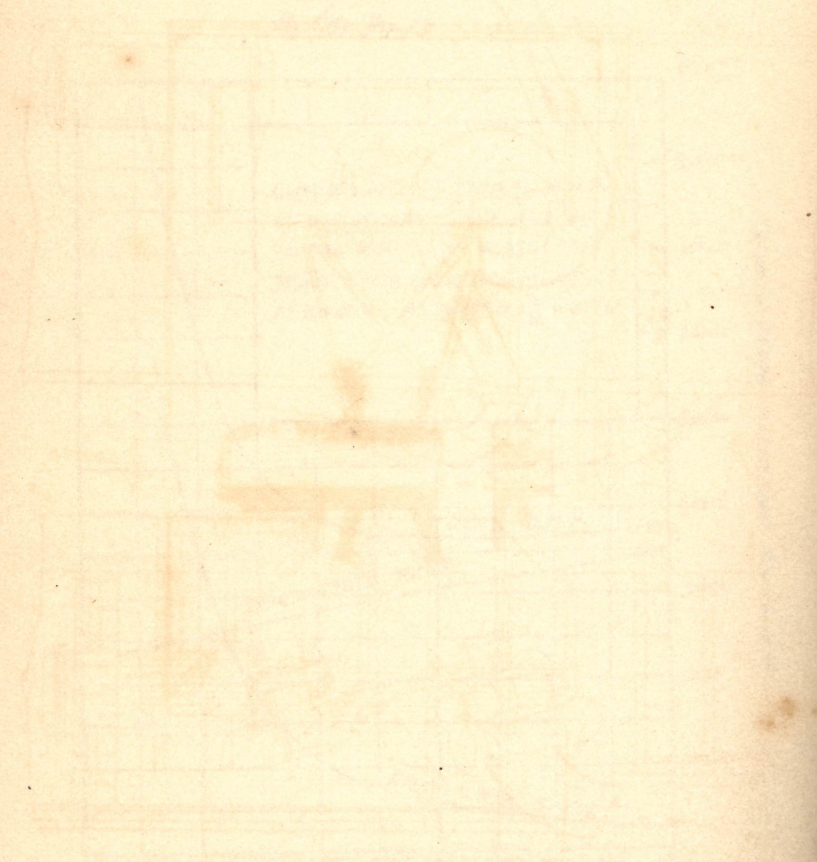
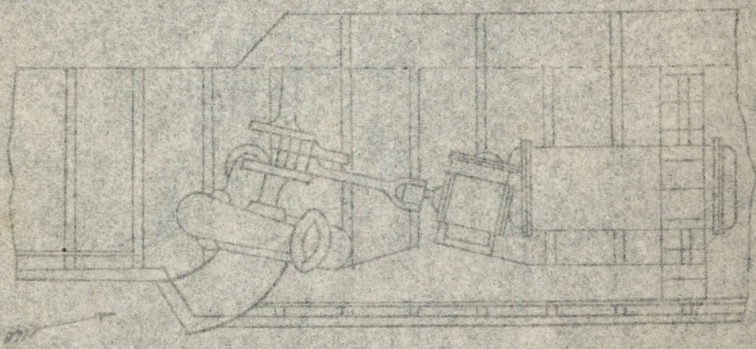
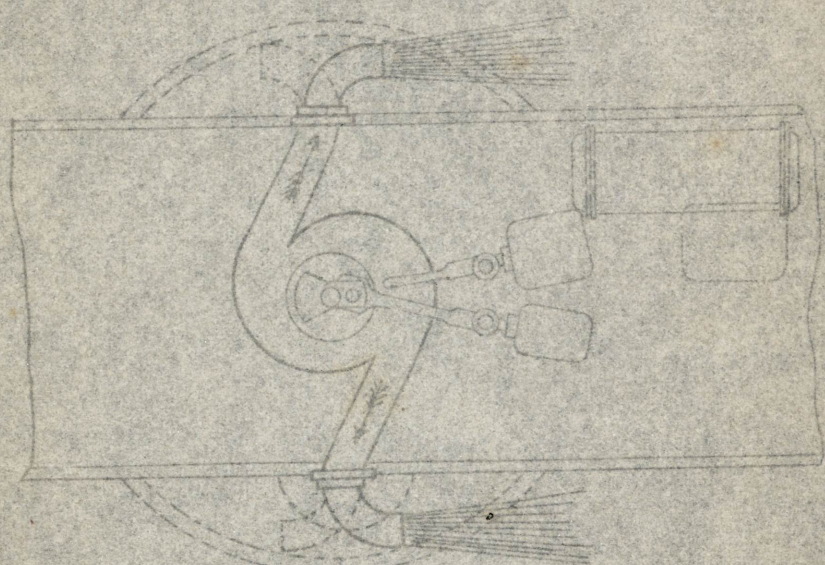


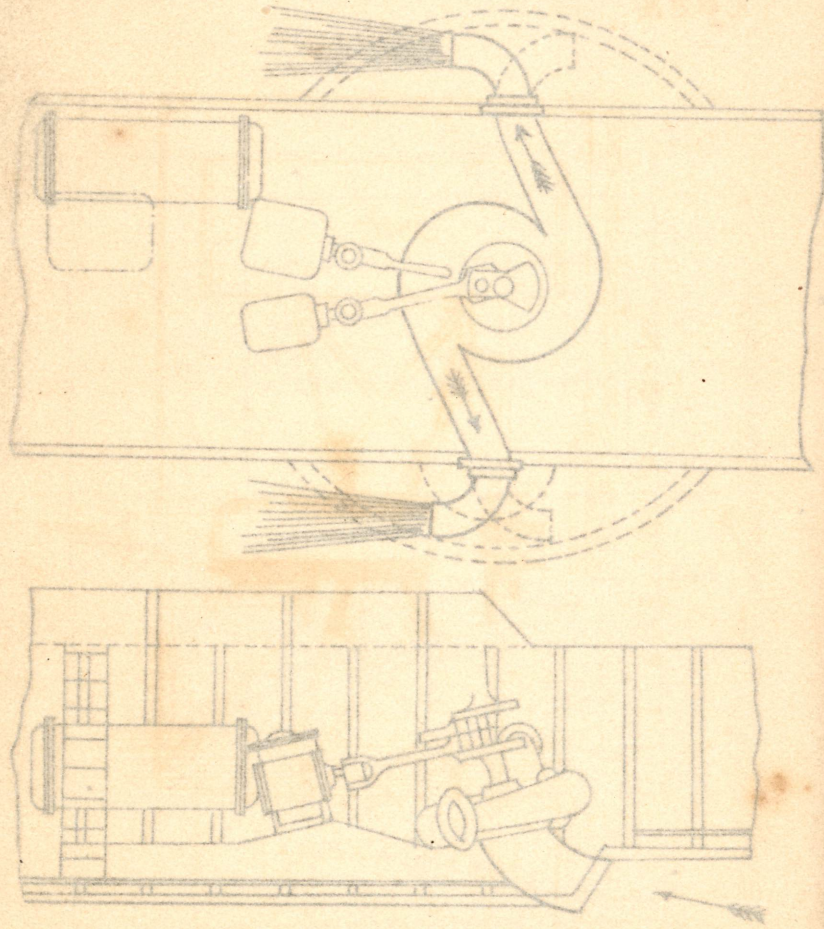
圖 8 葉

(煤車木) 圖 葉 並 針 於 機 動 針 車 木 車 煤



第 3 圖

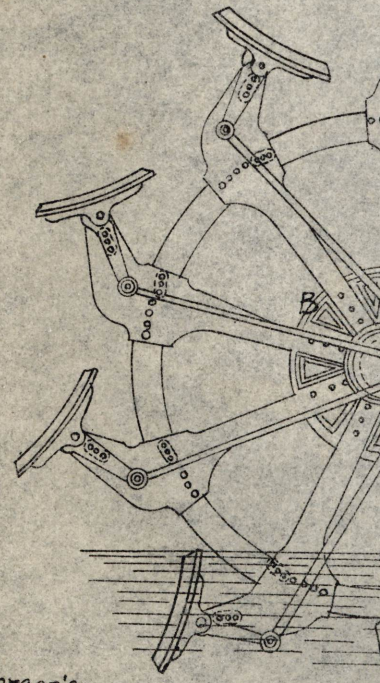
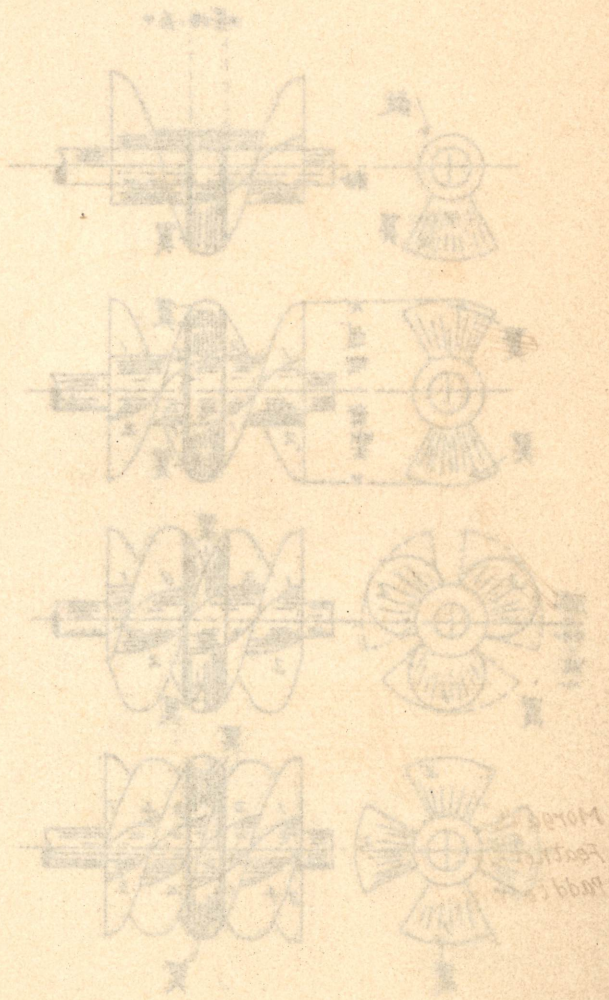
Thornycroft 噴射式推進裝置 (水電艇)



詳見

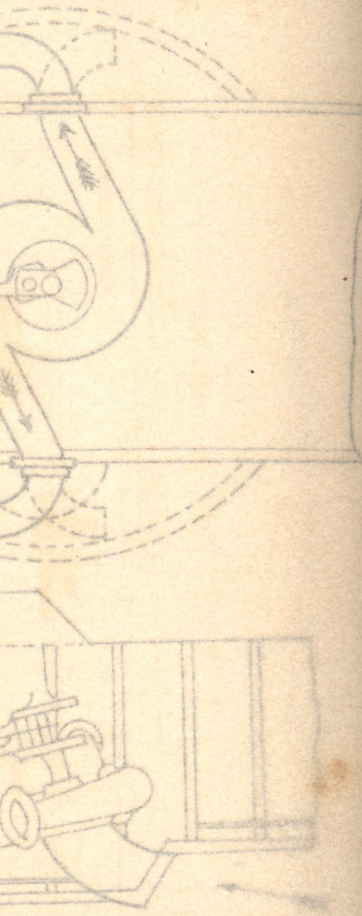
推進

圖 3 圖
噴射式

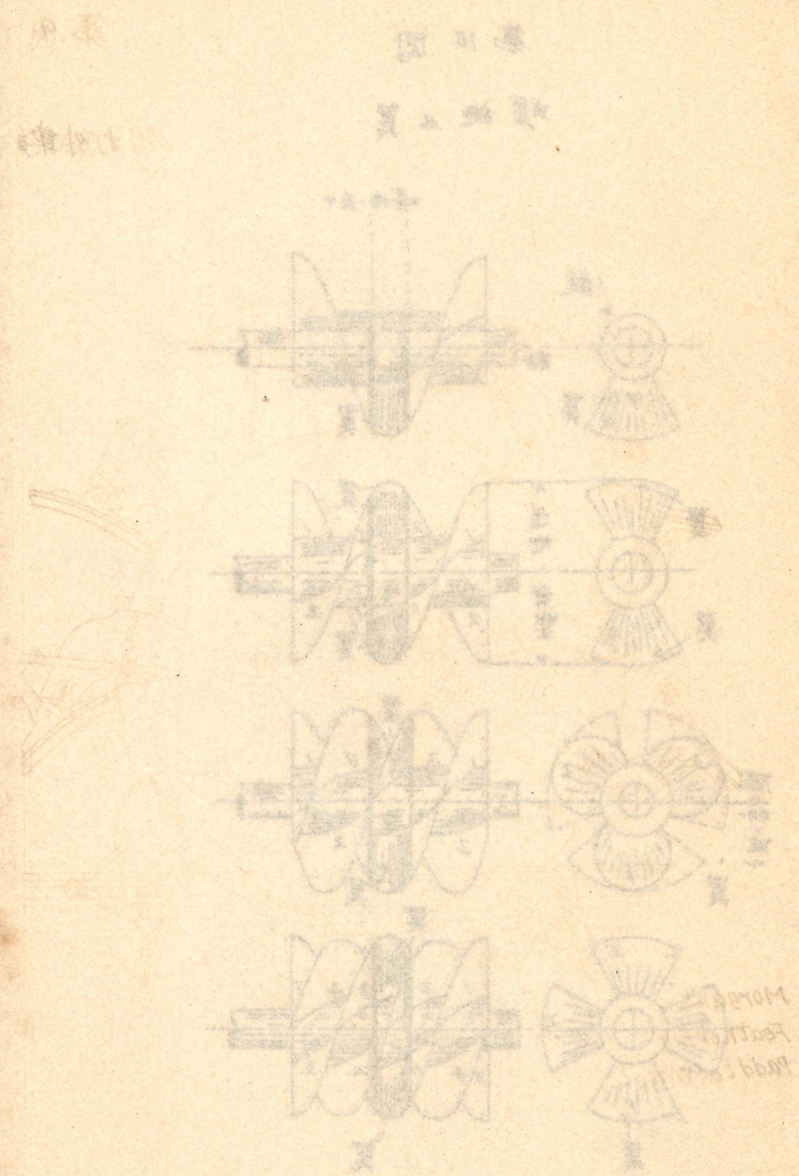


Morgan's.
Feathering.
Paddle Wheel.

推進装置(水車版)



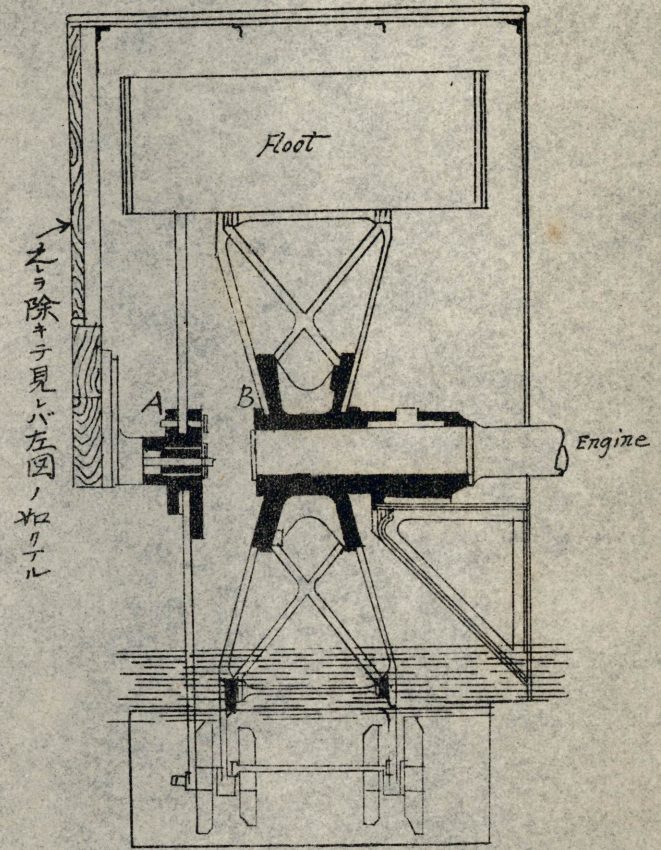
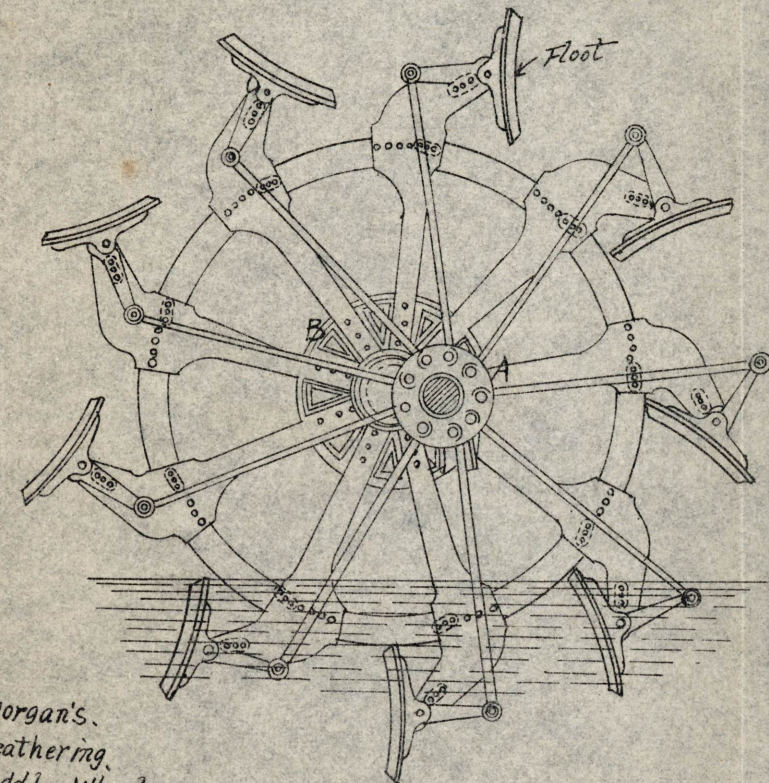
機軸



Morgan's Feathering Paddle Wheel.

第9回

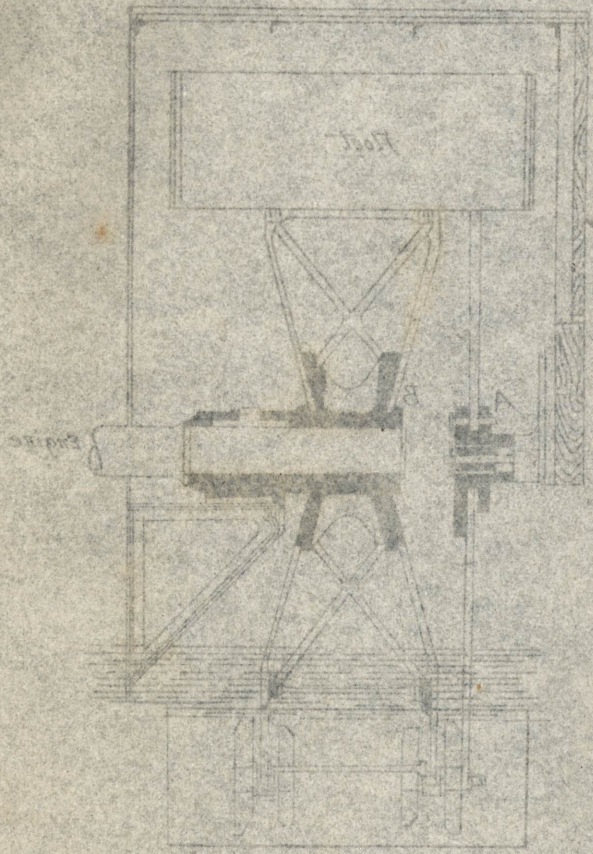
羽打外車式推進器



本ヲ除キテ見ル左回ノ如クナル

機中圖

各件之構造及位置



作車機之構造圖一第



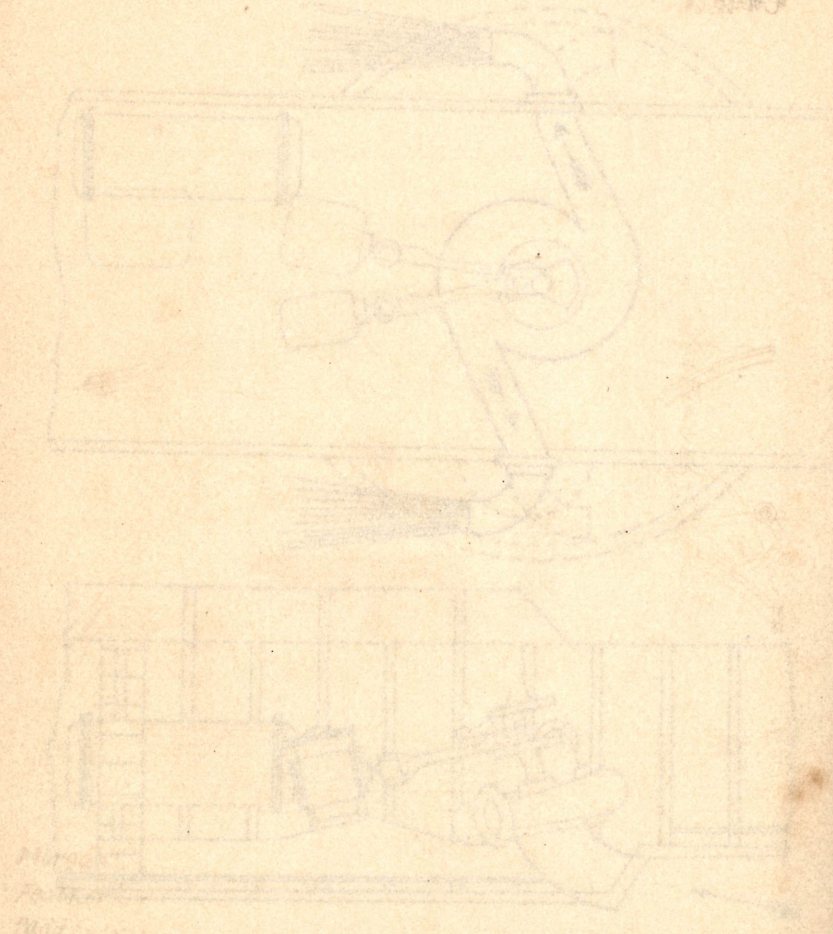
Motors
Foot of the
rod & wheel

第 2 圖

圖

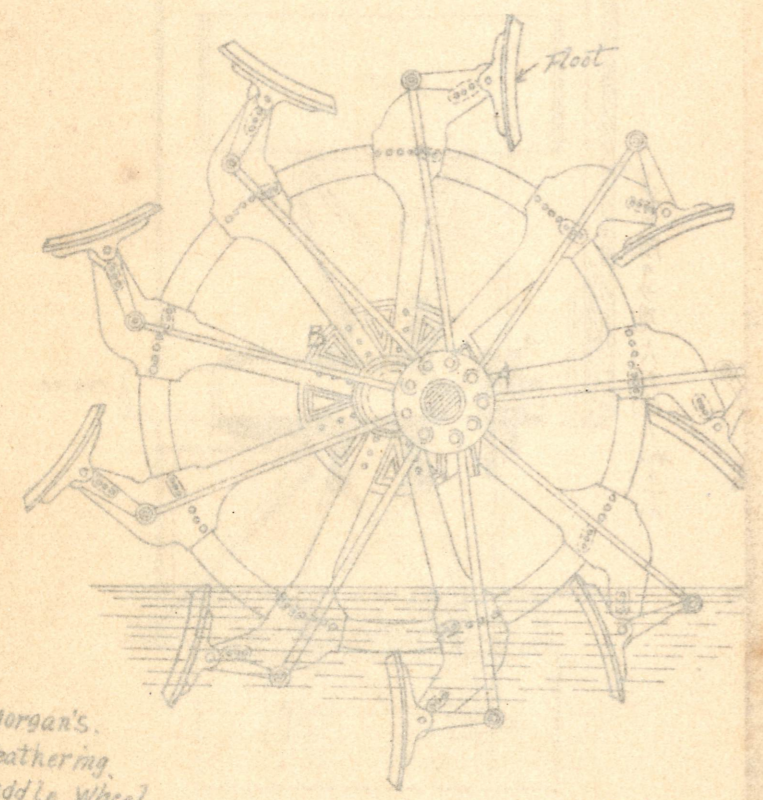
汽機之構造及位置 (汽機)

汽機

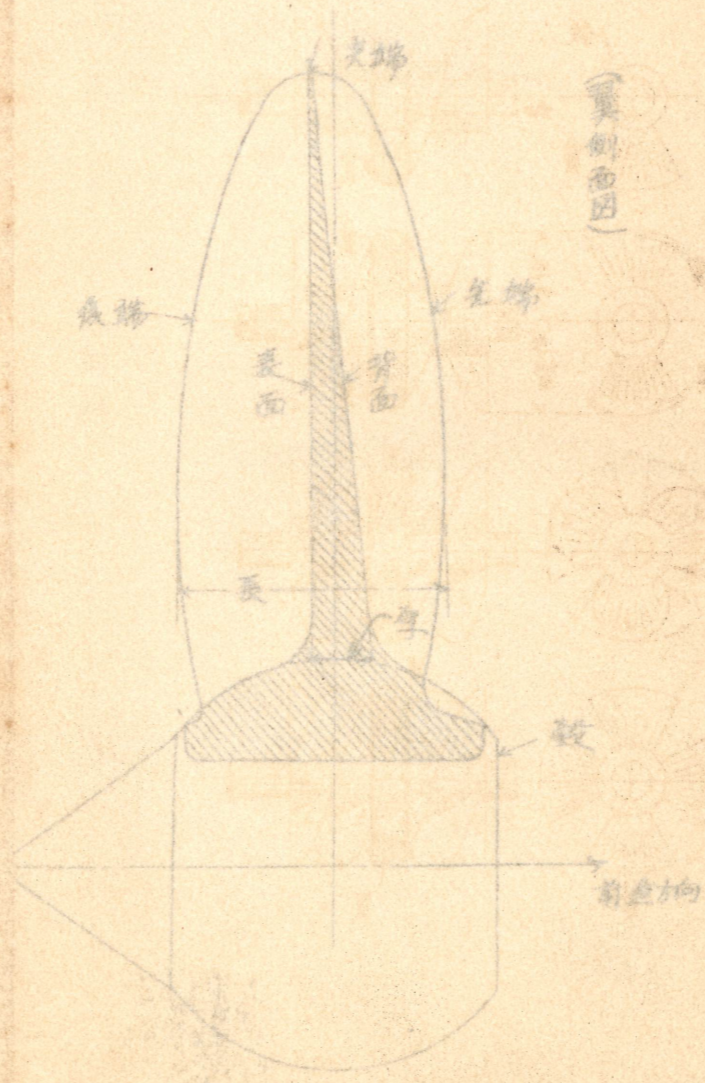


日因
旋推運器各部名稱

第9圖
羽打外葉

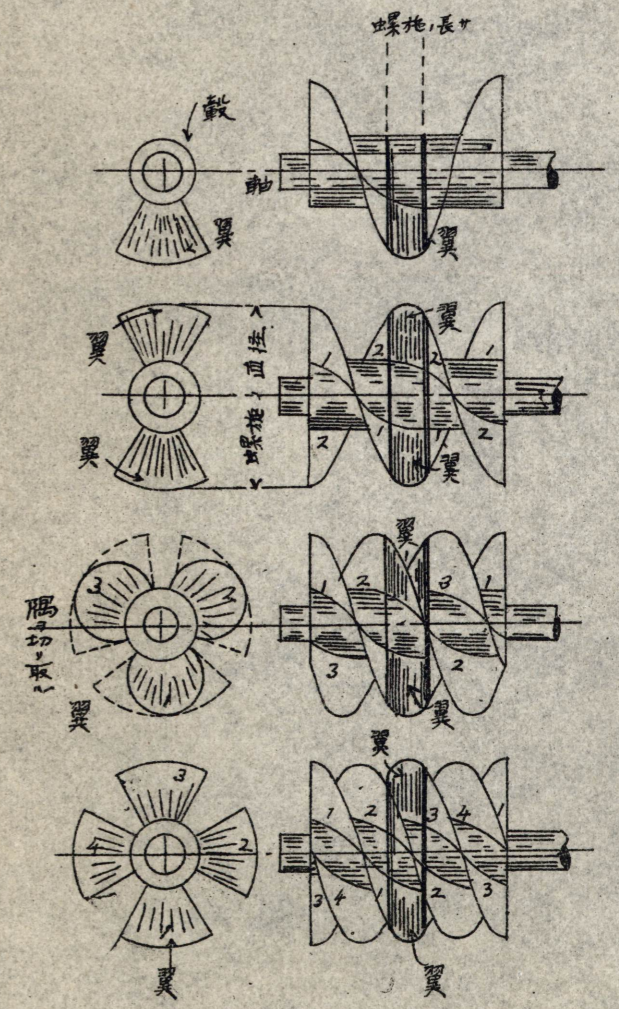


Morgan's
Feathering
Paddle Wheel.

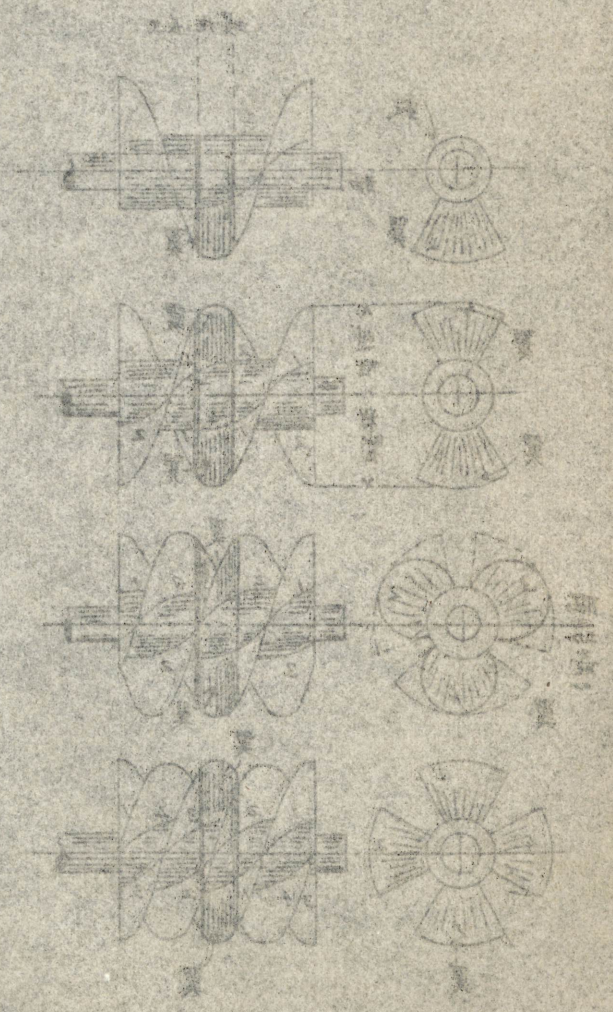


推進
八

第10圖
螺旋及翼

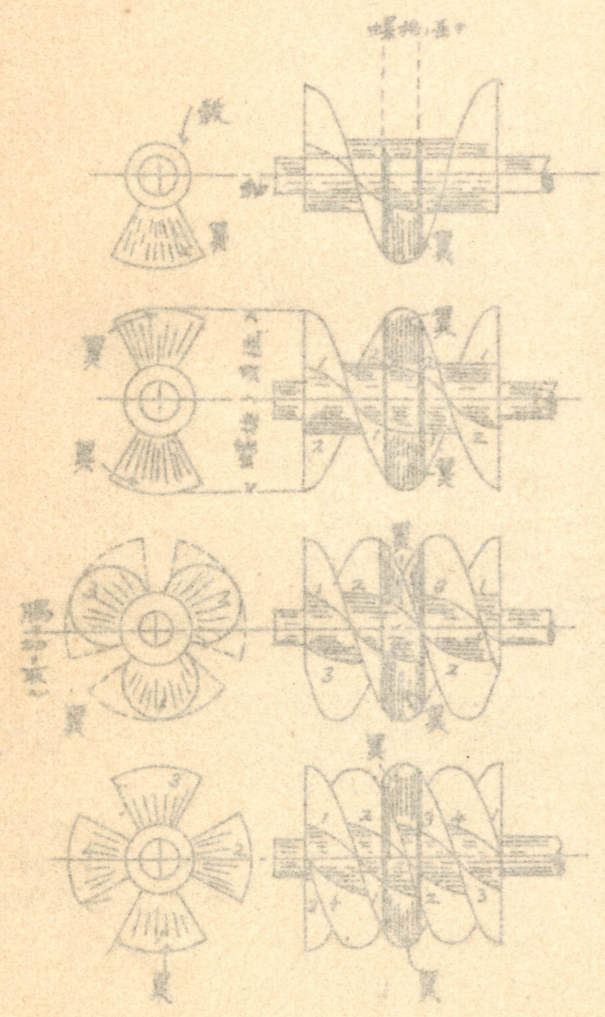


圖二
物二圖



第10回

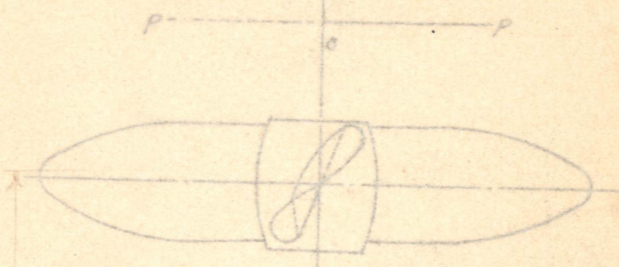
螺地ニ翼



螺地ニ翼

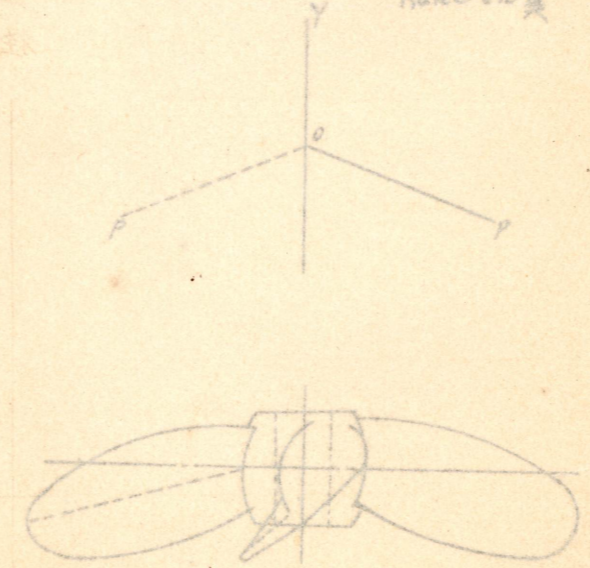
第13回

Rake α 翼

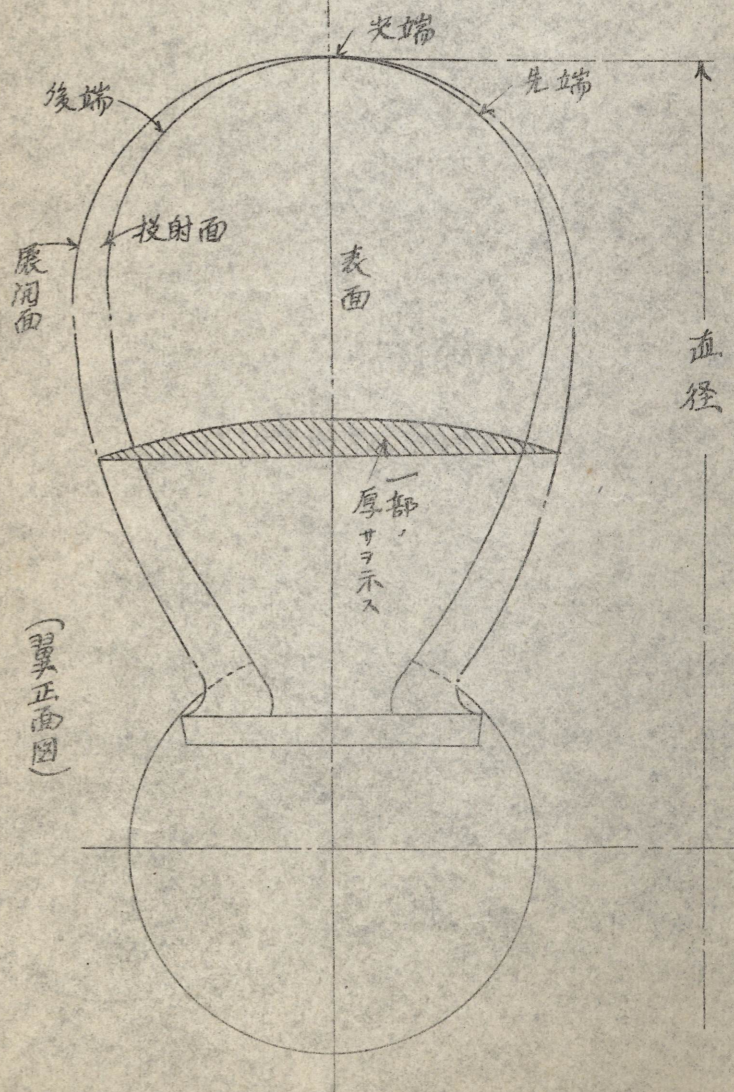
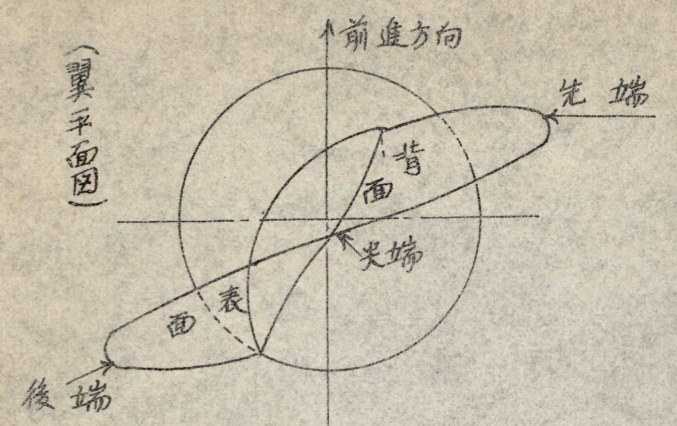


第14回

Rake α 翼



(翼平面図)



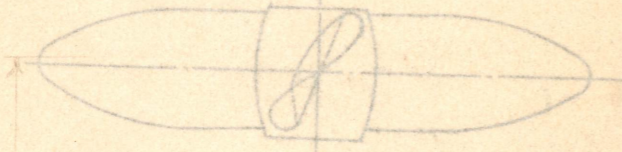
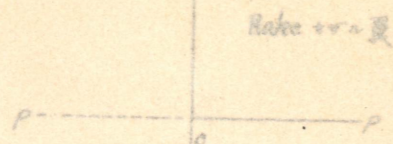
(翼正面図)

螺地ニ翼

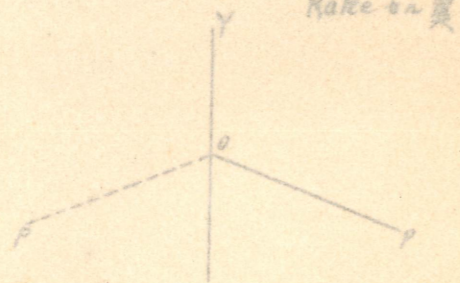
螺地ニ翼

(翼正面図)

第13回



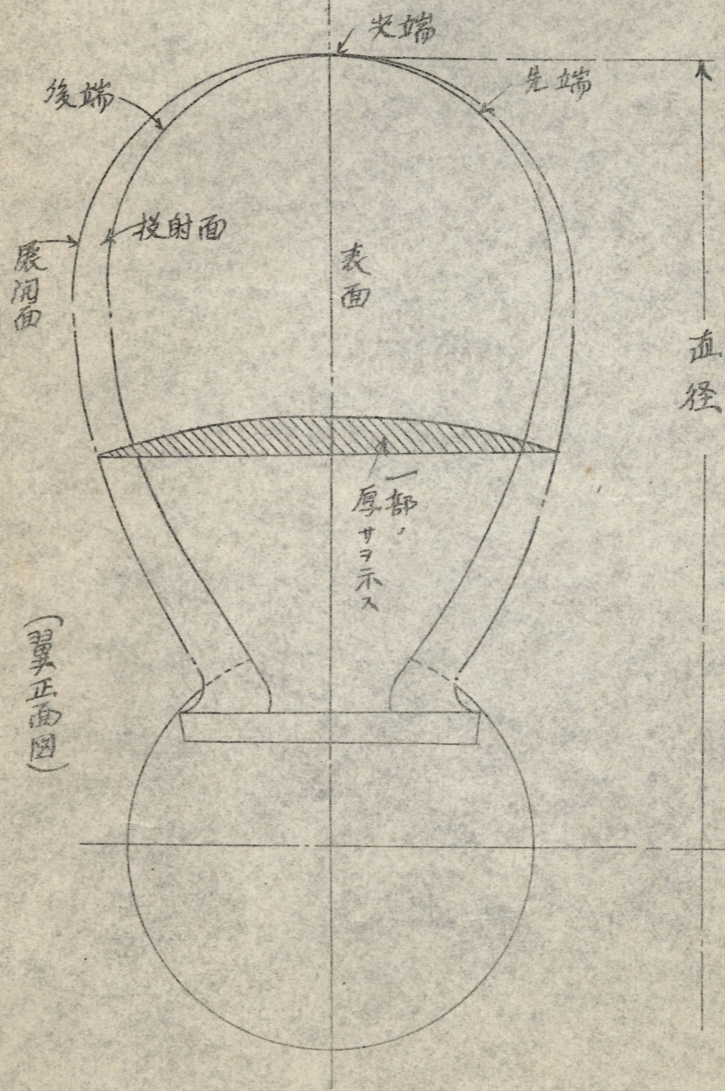
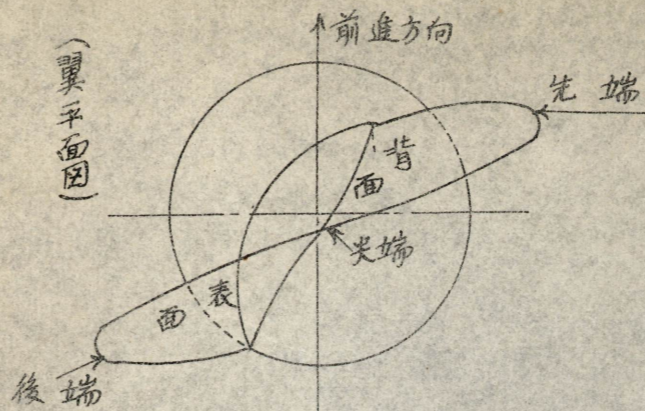
第14回



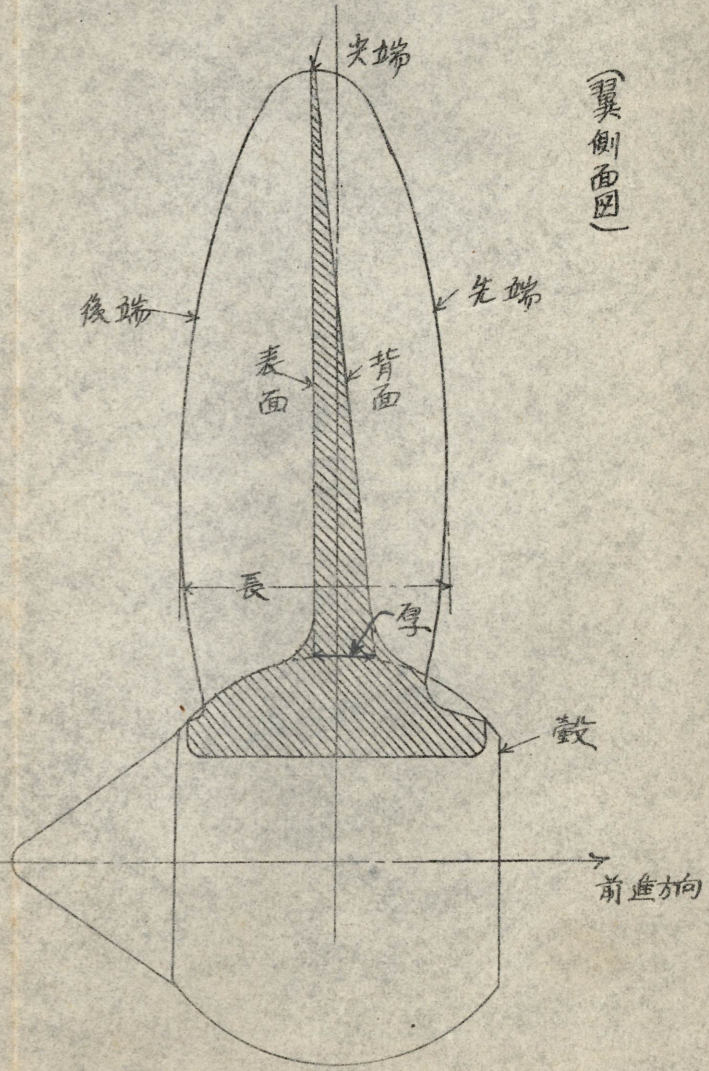
(翼正面圖)

第11回

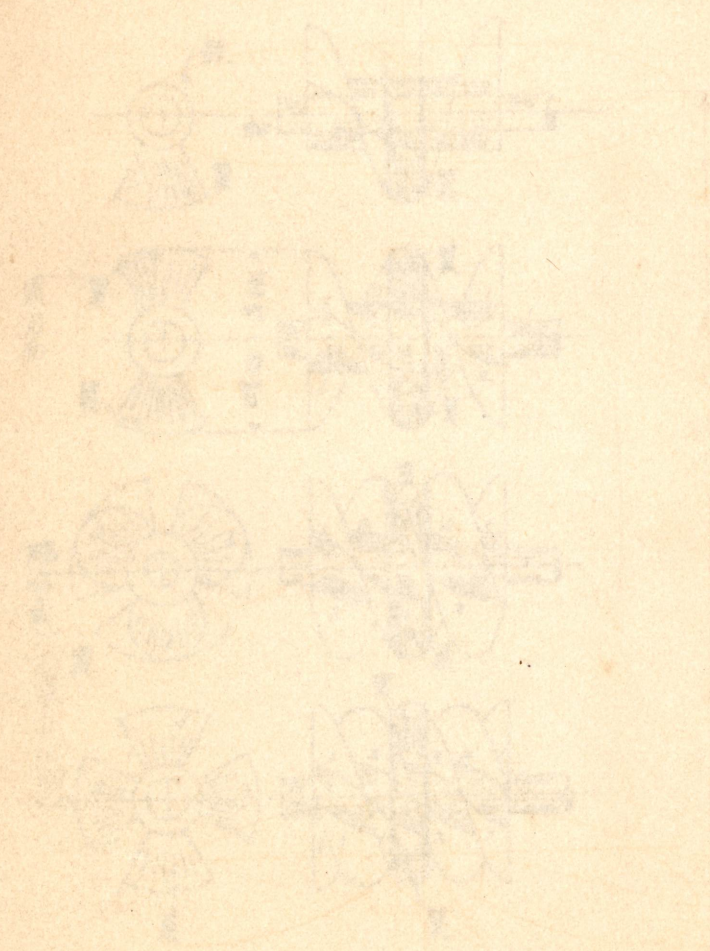
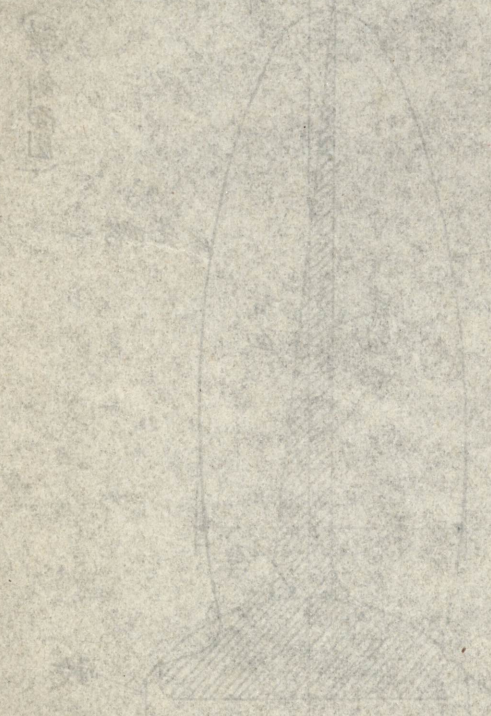
螺旋推進器各部名稱

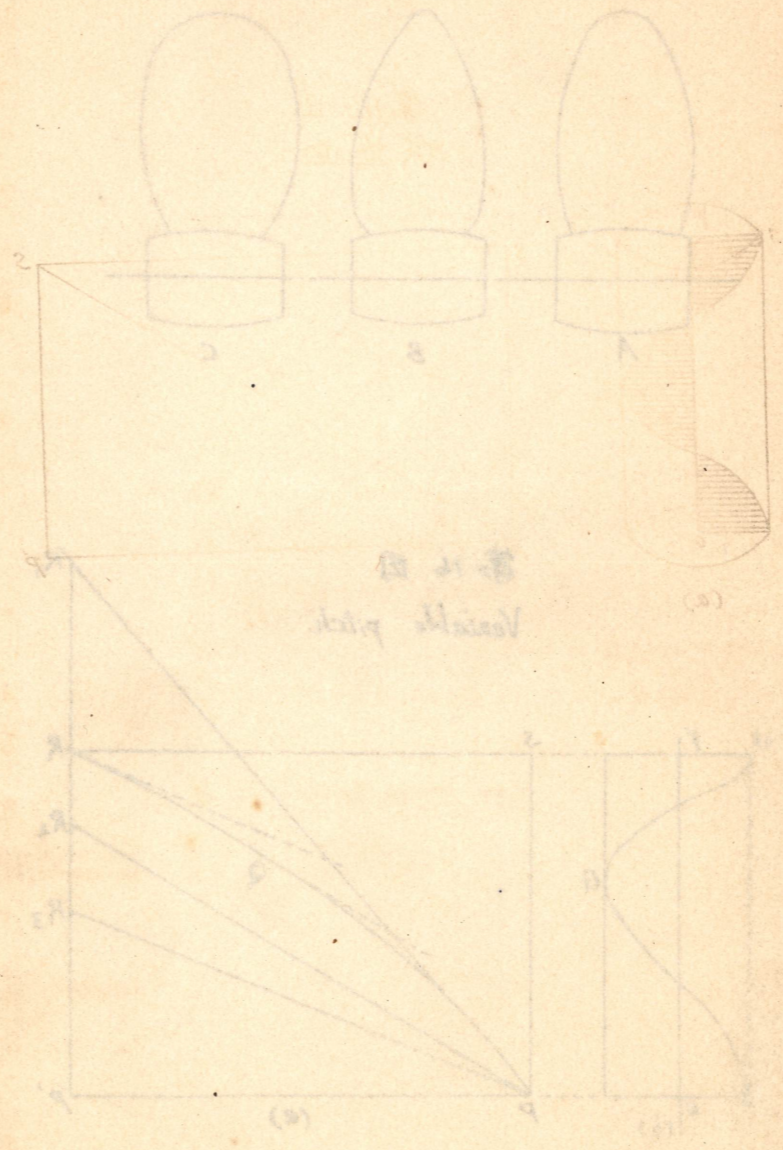
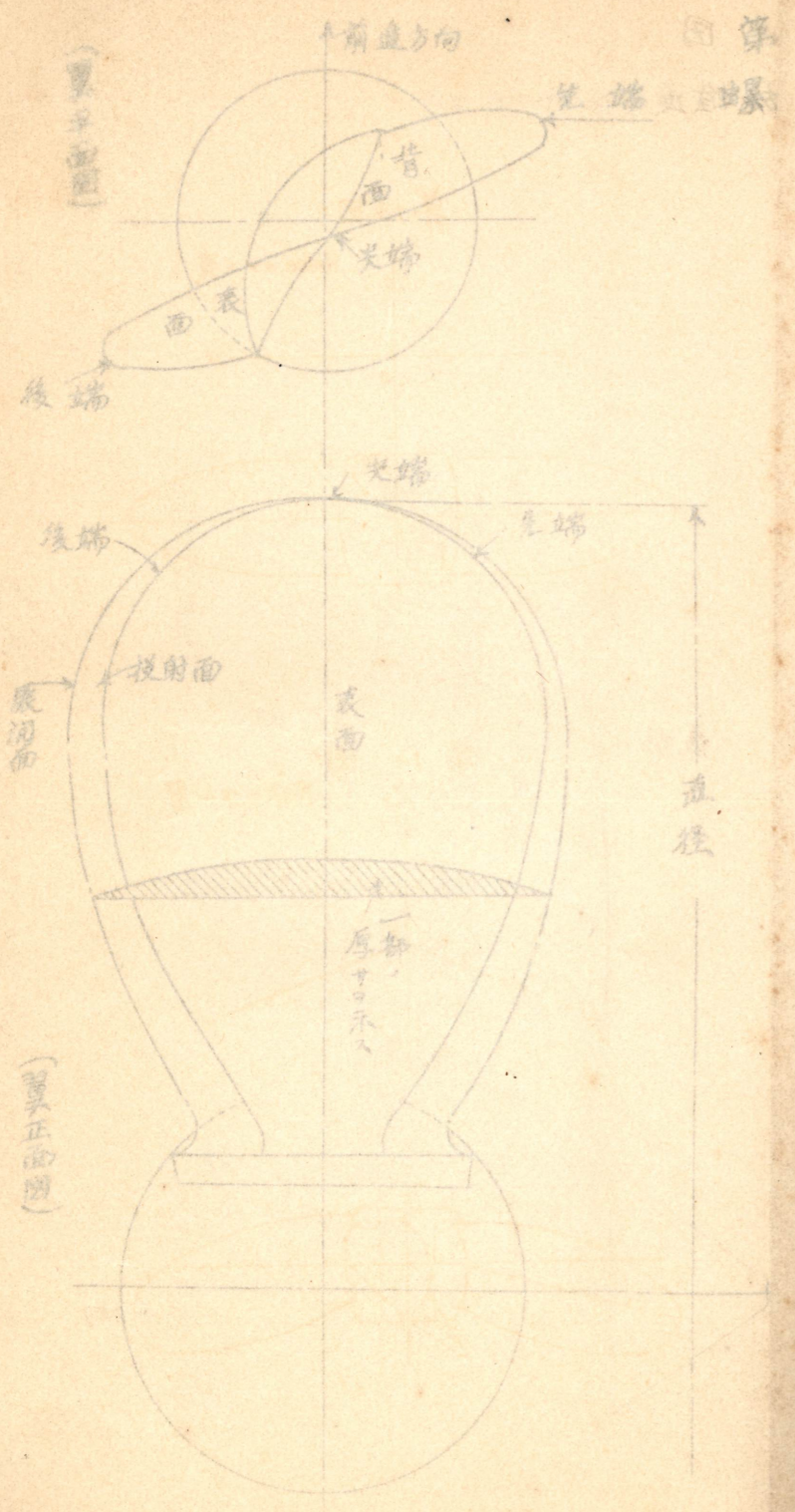


(翼正面圖)



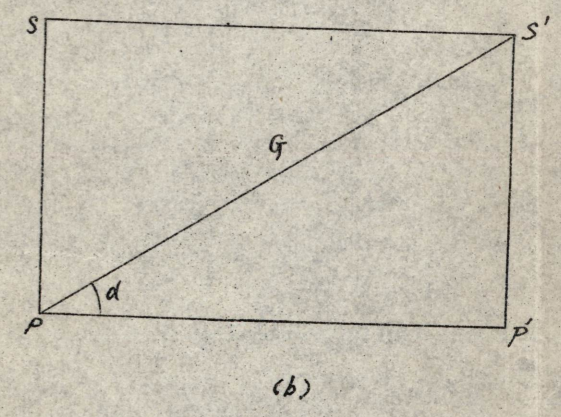
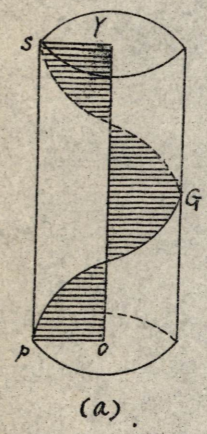
(翼側面圖)



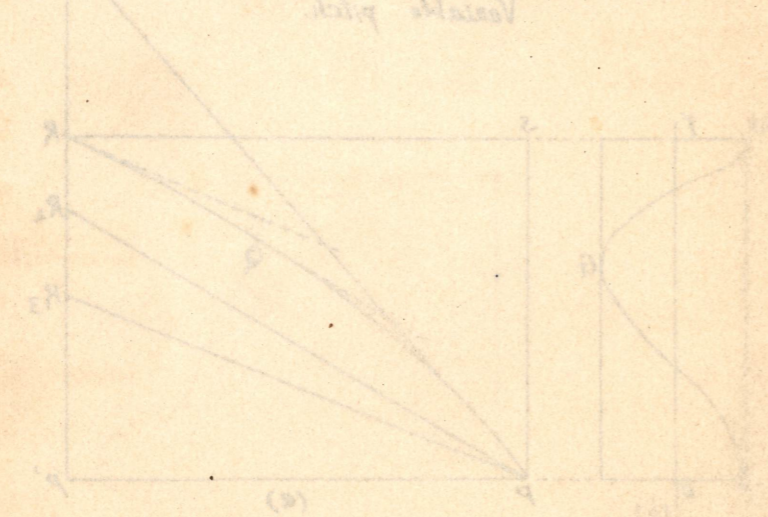
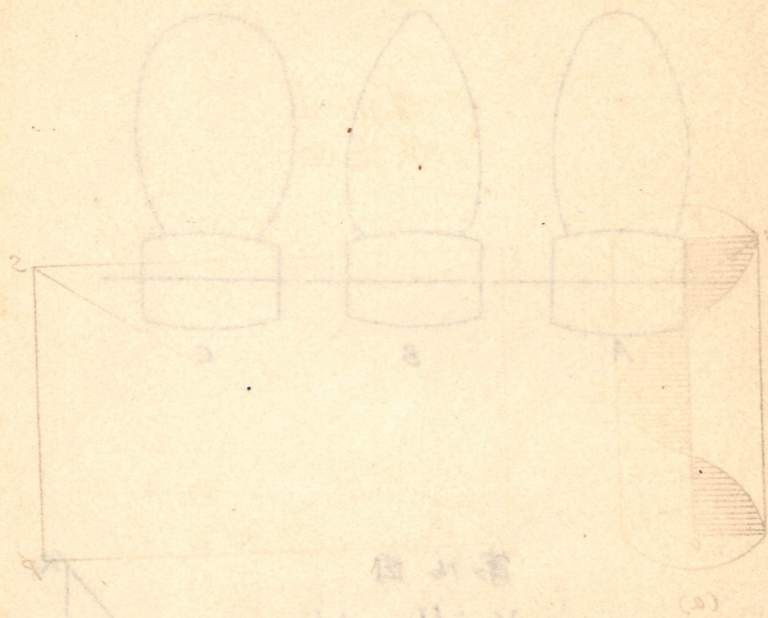


15
16

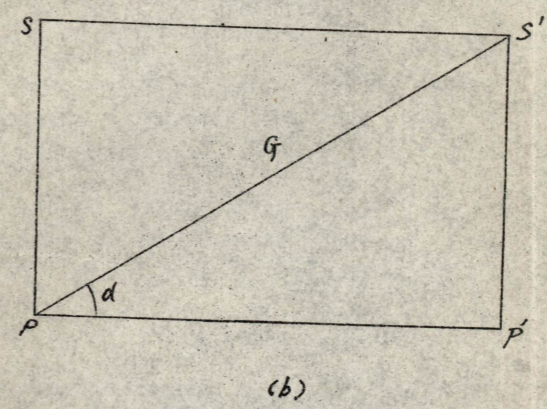
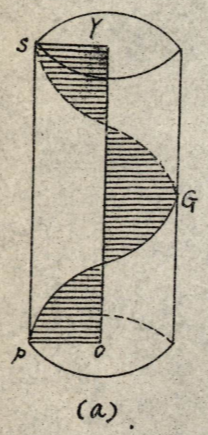
第 12 圖
螺旋面



第 11 章
螺旋面

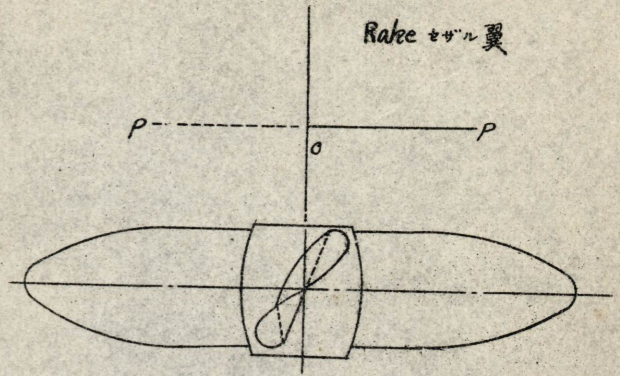


第 12 章
螺旋面



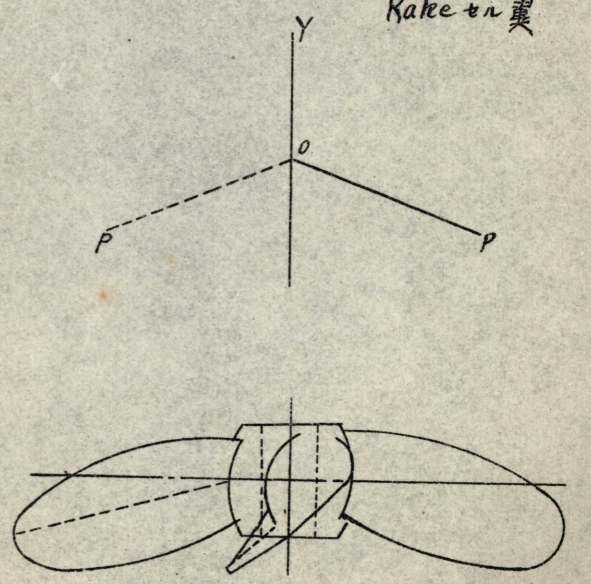
第 13 章

Rake 切刃翼



第 14 章

Rake 切刃翼



12
13
14

图 13 示

第一图

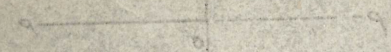


图 14 示

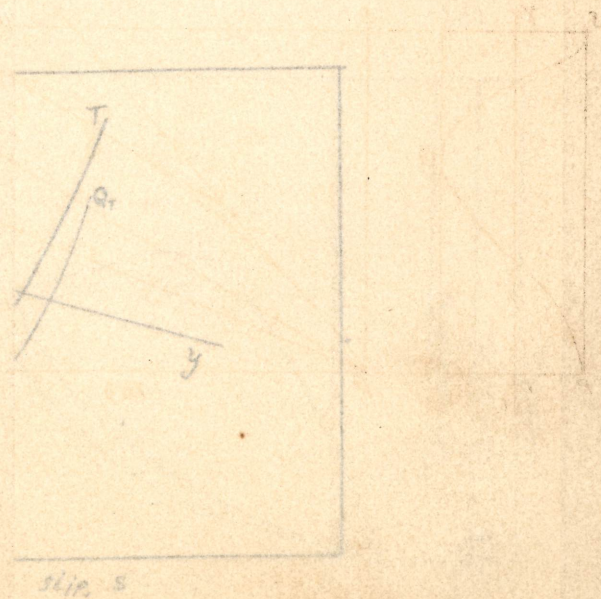
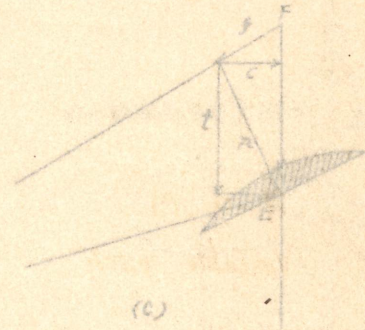
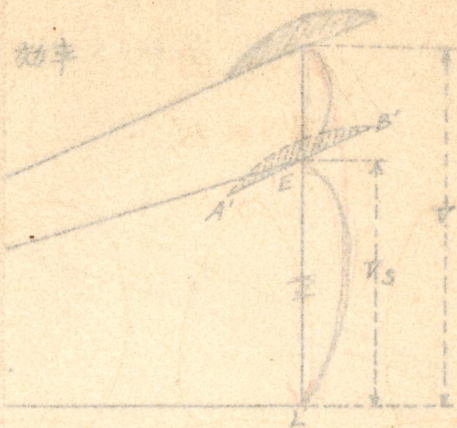
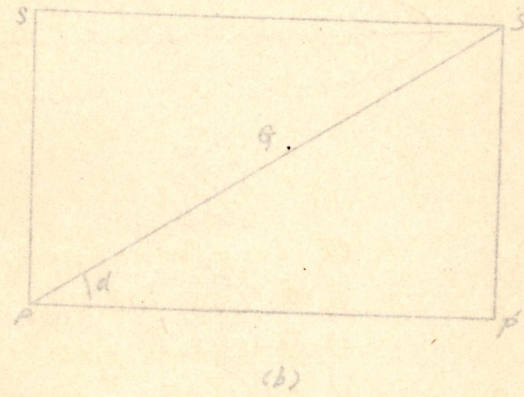
第二图



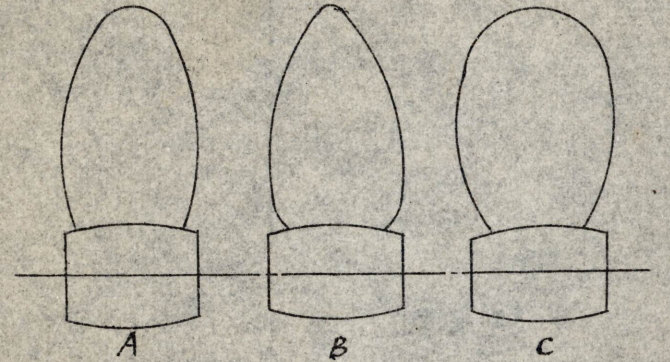
螺旋图
第一图



第12图
螺旋面



第15图
翼形状



第16图
Variable pitch

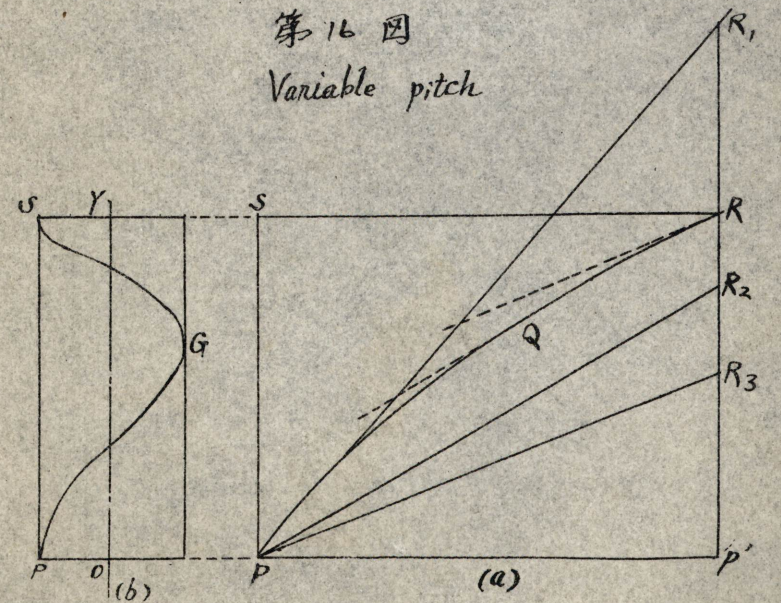


图 21 示
对行 算

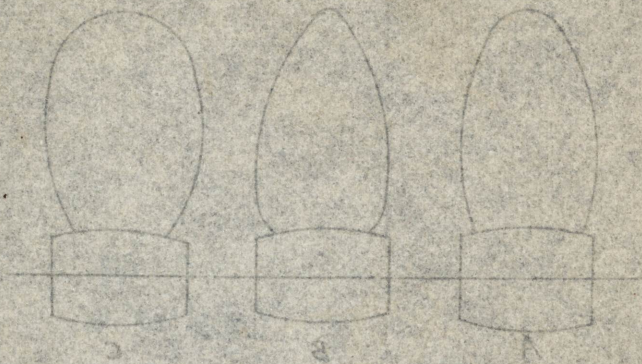
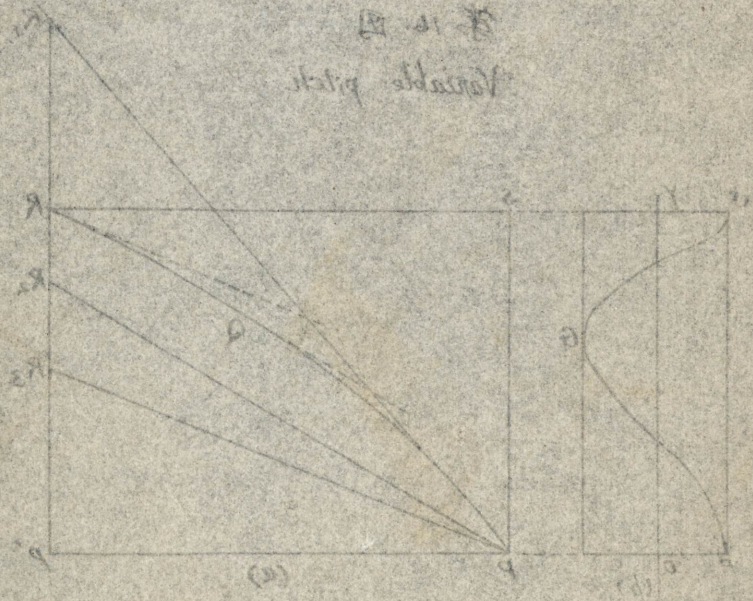
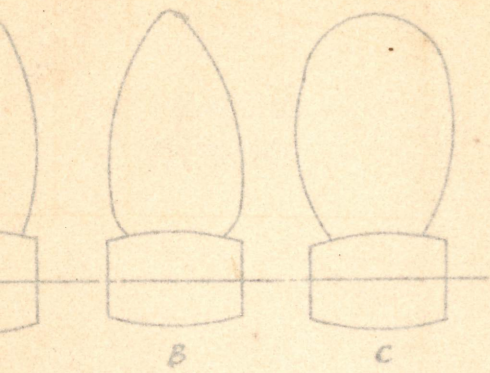


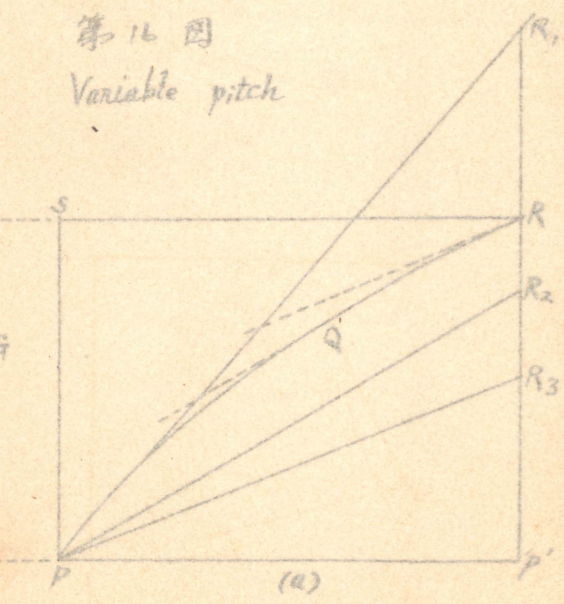
图 22 示
Variable pitch



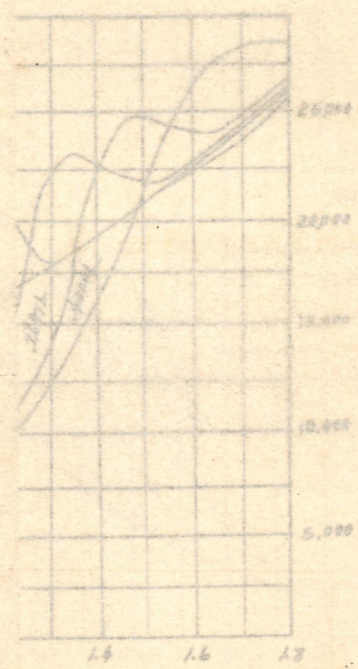
第15圖
翼形狀



第16圖
Variable pitch



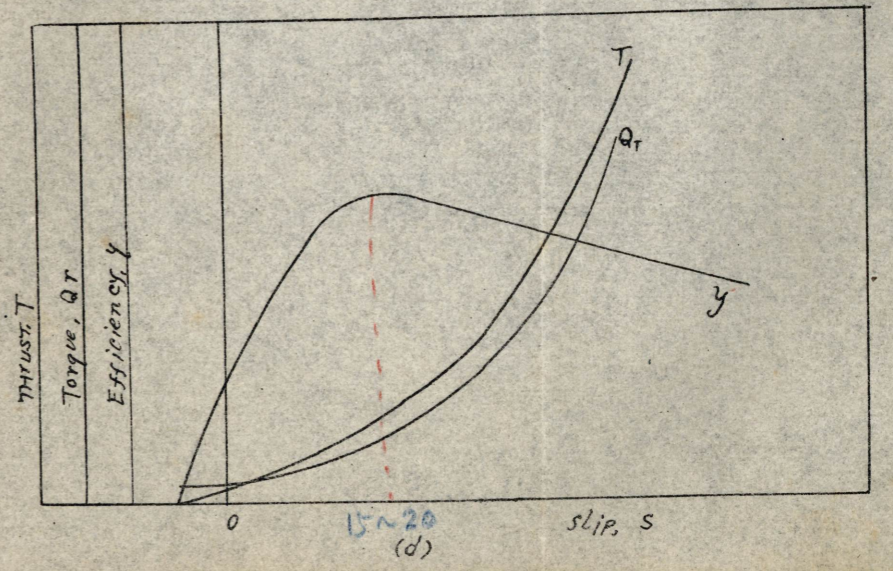
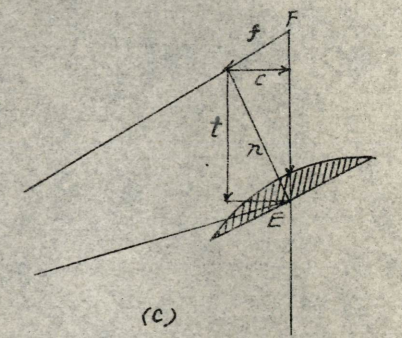
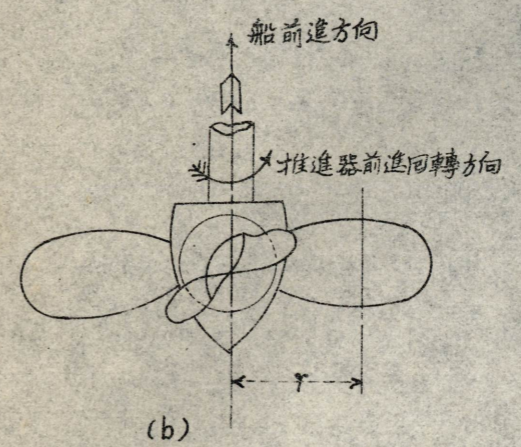
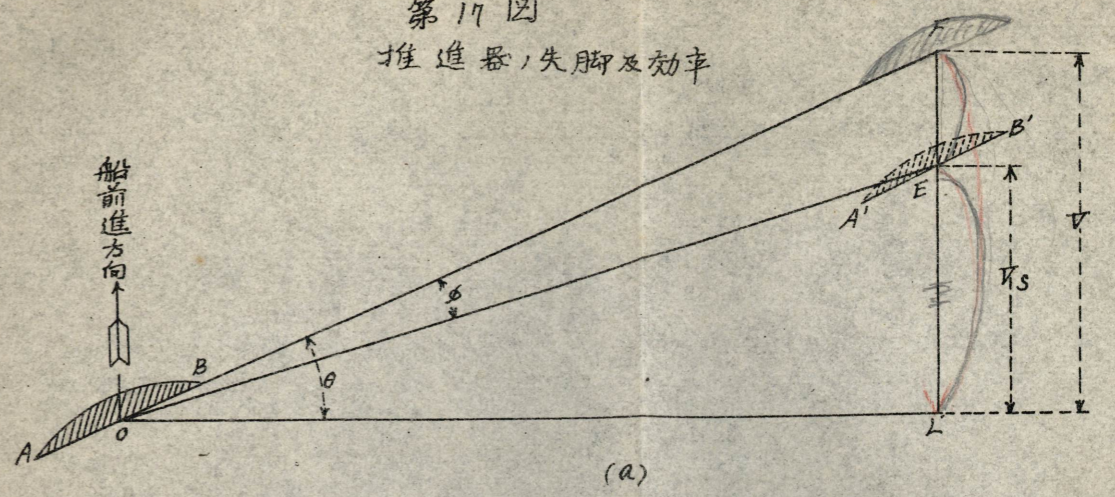
各種



T AS A FRACTION OF

Y-axis label	X-axis label
Y-axis label	X-axis label
Y-axis label	X-axis label

第17圖
推進器, 失脚及效率



推進十二