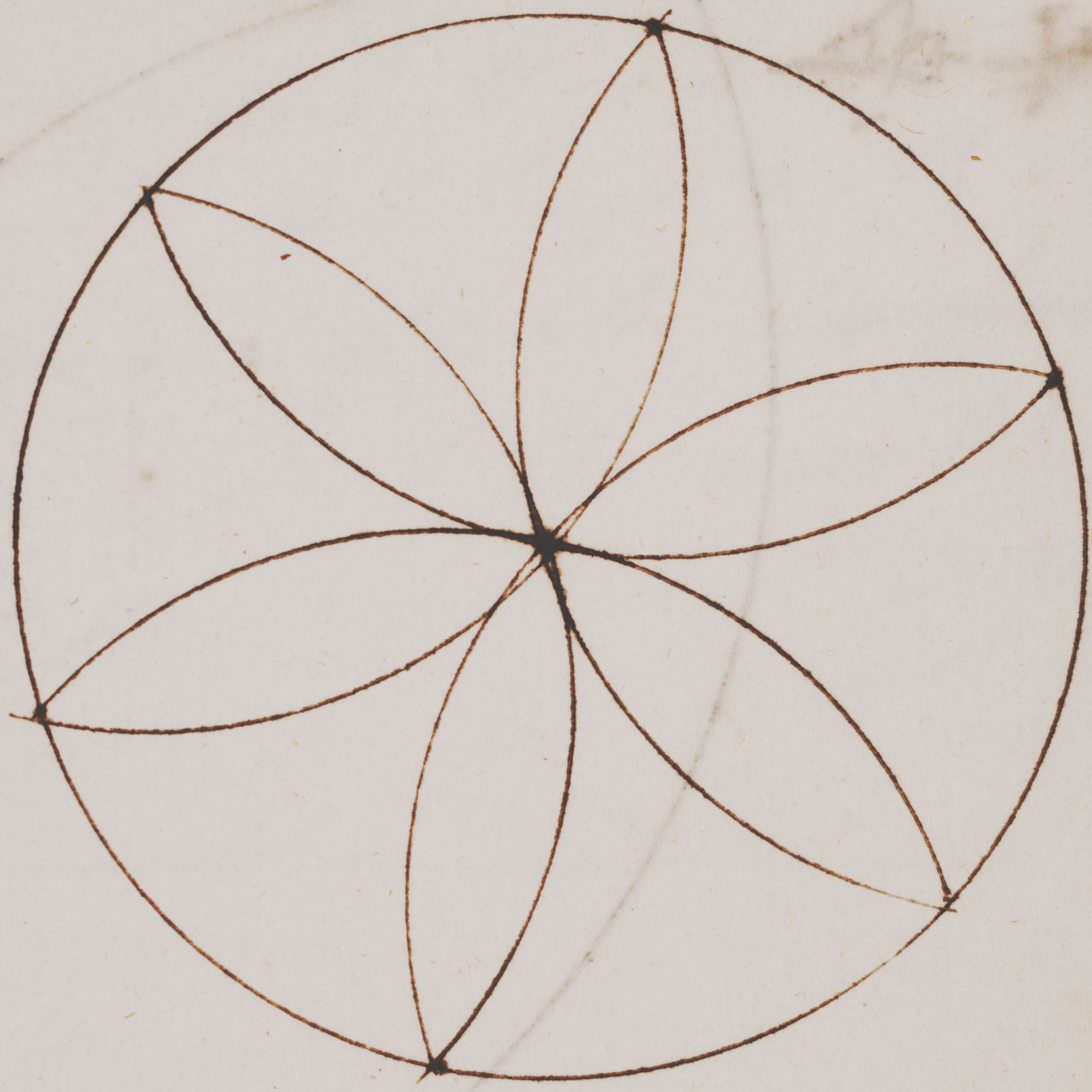

Diving Bell

1 Cubic foot of fresh water weighs 62.5 Lb

1 Gallon = 8 Lb

A Bell 3.5 feet Diameter at the Log-
and 3.5 feet Diameter at the smallest
23.47 cubic feet of water ~~4 Cwt~~ 8 Lb 1466.8
from this deduct the weight of the
Bell and the remainder is the weight
to be sunk on the bell — Lb
also the weight of the diver —

2. A cubic foot of air will support
a man for 4 minutes without
any uneasiness — for during
however one cubic foot should
be saved for every 3 minutes
in which case no accident can
possibly happen from want of
air —

3. The trouble and Expence of pro-
curing (Distilled water) as for
the whole ascent is too great but
a generality of Air as mixed with
Atmospheric air would be an
improvement —

4. Condensed air has been proposed
but ~~Rejected~~ the trouble
and expence of procuring it

would ~~not~~ greatly excel the
advantages derived from it —

5. Doctor Mailleys original mode
of constructing the bell with an
iron tool —

6. Rudder to prevent the bell
turning round in a contrary
direction to which it is moving
when producing the desired sound —

7. An effect on form of the
bell that answers better
made of Metal —

Instruments

1. Down and up immediately
— quick dry —
2. Signals — Air sent down —
3. Cellules flooded —
4. Boob — Shafts pen and pot
5. Mouthpiece made — Gerbes —
6. — Augmentation of sound —
— Magnetic needle — Electricity
— Music — sound communi-
— cated to the surface —
— Bell raised by Disengaging
the Balance weight —
7. Small Diving bell of Shafts
— bird — mouse — Paper — Letter
quicksilver air —

8. To beat a Song below —

9. To try the Gust of continued air
on Sounds — Vol. alth. mouth —

Doctor Hallys Pewter Bell
contained 60 Cubic feet was 5 feet
in Diameter at bottom and 3 at top,
two Air Casks 36 Gallons each
cased with Lead —