Then the boat lifts again and again dives, etc., etc. This is what Baldwin means by "the perpoise act".

m () m

Bullotin No.XXIV

Line

Sec. State

10 206.6

C. LEVER

1550

6

No has also noticed that considerable "fuss" or water disturbance is produced when the hydro-curves come to the surface. In other words feam is produced. Now feam is water mixed with air. If a partial vacuum existed above the blades, both air and water would rush in to fill the vacuum and thus occasion the feam.

It would be interesting to try the experiment of having a hydro-surface made which should be convex above and flat below, and then dragging it through the water with the flat surface horizontal.

Should any lifting effect be manifest it could only be due to the peculiar shape of the upper surface. We should keep our eyes open to what is going on above the blade as well as to what is happening below. A.G.B.

A SUBSCREED WHILLING FRAME.

December 9. 1908: Hany experiments have been made to ascortain the lifting power of aeroplanes and aero-curves set at different angles to the horizon by means of turning tables or frames to which the surfaces are attached. Mr. Baldwin and I are now engaged in planning out a submerged turning table or frame to test the lift and drift of submerged hydroplanes and hydro-curves. A scientific instrument of procision of this character could be easily constructed and would doubtless give us important information applicable alike to aero-surfaces and hydro-surfaces. These plans as they mature will be described in subsequent Bulletins.

A.G.B.