ness, but I will say this for the 'Fitzgerald' sounding apparatus that I never knew it fail; and we were obliged, unfortunately for ourselves, to try it frequently in very bad weather and under most unfavourable The soundingcircumstances. line ends in a loop passing through an eye in the centre of a bar of iron F. The bar terminates at one end in a claw and at the other in a second eye, to which a chain is attached. A scoop A, with a sharp, spade-like lip, is fixed to a long and rather heavy iron rod D, with an expanded ruddershaped end to steady it in passing quickly through the water, and beneath this an eye, which fits the claw of the bar F. door B fits the scoop to which it is hinged, and it is also hinged to the arm c, which, when held in a vertical position, keeps it open. The arm c is attached by the chain to the eye in the bar F, and the arm and chain correspond in length to the rod D. Two teeth EE project from D, and on these are hung a heavy weight. The

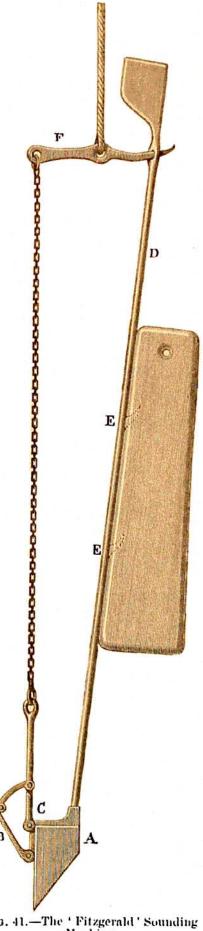


Fig. 41.—The 'Fitzgerald' Sounding Machine.