

the comb valve. It is screwed into A on the top of a thin leather washer to make the



FIG. 12.—The Dredge.

A, A, arms of the dredge, connected together with iron screw bolts B, B, B, and between them an iron tongue C, with a swivel-ring D at its upper end, to which the dredge-chain is fastened; E, E, E, two knife-edged pieces of iron on the long sides of the framework, having an outward inclination of about 10° from the perpendicular; F, sack of the dredge made of network of soft line, and lined inside with cotton cloth; G, G, iron bar, suspended by the ropes H, H, to the framework, and supporting the flat-headed swabs K, K, K, K, K.

joint tight. At each sounding a sample of the mud and of the bottom water will be