PUMP.

VATER-WORKS.

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rucq a local soil the arm of the arm A. Sec. is of a pur-

what shape; one side, GE is directed to the course O;

Salver sides BCDE, has a smed shoulder BC; them a

bride (3) directed to the centre O , and then a third

Ir would be an entertaining and not an uninstructive piece of information to learn the progressive steps by which the ingenuity of man has invented the various methods of raising water. A pump must be considered as the last step of this progress. Common as it is, and overlooked even by the curious, it is a very abstruse and refined invention Nothing like it has been found in any of the rude nations whom the restless spirit of the Europeans has discovered, either in the new continent of America or the islands of the Pacific Ocean. Nay, it was unknown in the cultivated ent pire of China at the time of our arrival there by sea; and it is still a rarity everywhere in Asia, in places unfrequent ed by the Europeans. It does not appear to have been known to the Greeks and Romans in early times; and per haps it came from Alexandria, where physical and mather matical science was much cultivated by the Greek school under the protection of the Ptolemies. The performances of Ctesibius and Hero are spoken of by Pliny and Vitruvius as curious novelties. * It is perhaps not difficult to trace the

^{*} In the early Greek writings, it does not appear that the words 'analos, '