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(71) **Applicant: THREE ES S.R.L.** [IT/IT]; Via Libertà 105, 20824 Lazzate MB (IT).

(72) **Inventor: SOLDI, Marco**; c/o Three Es S.r.l., 20824 Lazzate MB (IT).

(74) **Agent: BOZZETTI, Francesco** et al.; c/o Perani & Partners S.p.A., Piazza Armando Diaz 7, 20123 Milano (IT).

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(54) Title: CAVITATION REACTOR

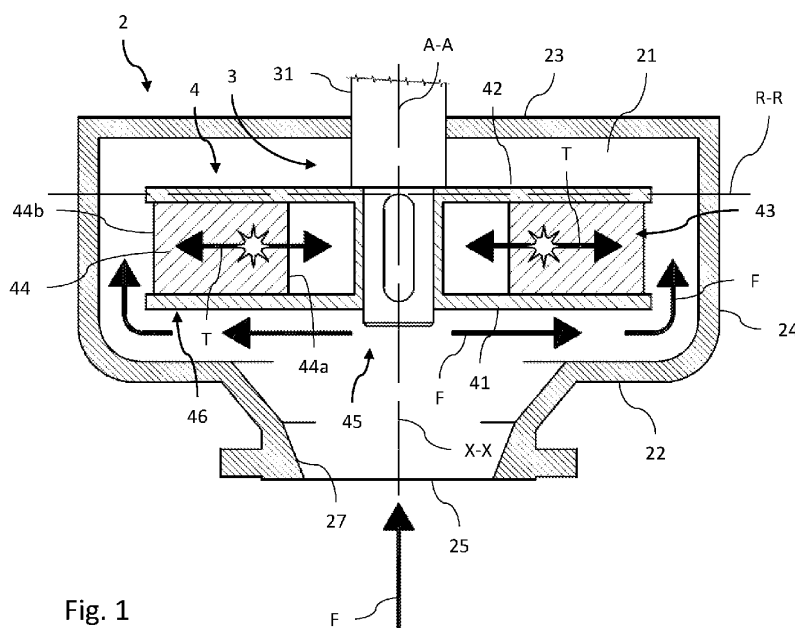


Fig. 1

(57) Abstract: A cavitation reactor (1) that may be obtained from a centrifugal pump is described. The reactor comprises a stator (2) and a rotor (3) having at least one centrifugal stage (4) accommodated in a chamber (21) of the stator (2). Two walls (41, 42) of the centrifugal stage (4) define a gap (43) therebetween, which is divided into compartments (47) in fluid communication with the chamber (21) of the stator (2) at the peripheral portion (46) of the centrifugal stage (4). The wall (41) of the centrifugal stage (4) that is next to the inlet opening (25) of the chamber (21) of the stator (2) is closed at the central portion (45) of the centrifugal stage (4), to thereby prevent the flow of fluid from the inlet opening (25) to the peripheral portion (46) of the centrifugal stage (4) through the gap (43).

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