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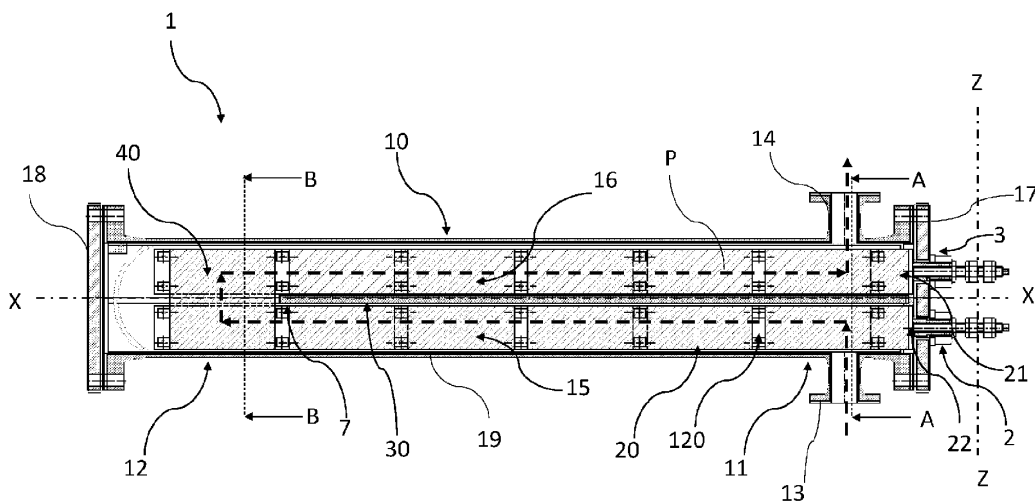


Fig. 1

(57) Abstract: An electrolyzer (1) for electrolyzing saline water comprising: a housing (10) extending along a longitudinal direction (X-X) between a first end portion (11) and an opposed second end portion (12) and having a feed fluid inlet (13) and a product fluid outlet (14); two or more electrolytic cells (20) connected fluidically between the feed fluid inlet (13) and the product fluid outlet (14) and configured to electrolyze saline water entering the housing (10) to produce an electrolyzed fluid comprising hydrogen, hypochlorite and saline water; each electrolytic cell (20) comprising an anode (21) and a cathode (22); the housing (10) comprises: an inner wall (30) extending from the first end portion (11) towards the second end portion (12) along the longitudinal direction (X-X) and dividing at least a portion of the housing (10) in an inlet channel (15) and an outlet channel (16) respectively associated to the feed fluid inlet (13) and to the product fluid outlet (14); a diverting channel (40) at the second end portion (12) configured to divert the electrolyzed fluid from the inlet channel (15) to the outlet channel (16), the two or more electrolytic cells (20) being arranged along the inlet channel

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(15), the outlet channel (16) and the diverting channel (40)