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(74) Agents: VESIN, Jacques et al.; L'Air Liquide S.A., 75, quai d'Orsay, F-75321 Paris Cedex 07 (FR).

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(71) Applicant (for all designated States except US): L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE [FR/FR]; 75, Quai d'Orsay, F-75321 Paris Cedex 07 (FR).

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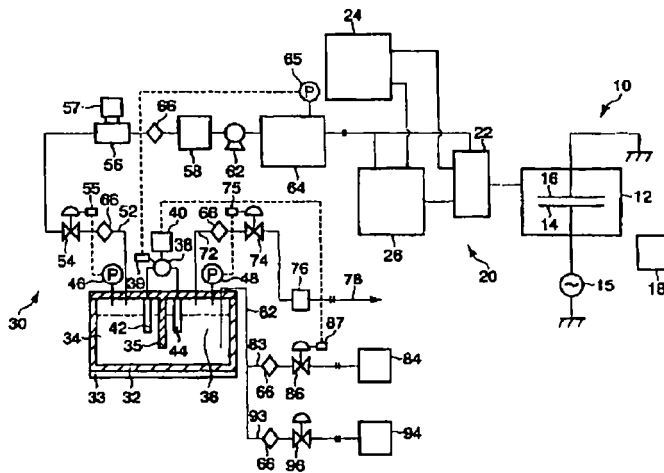
(72) Inventors; and

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(75) Inventors/Applicants (for US only): SONOBE, Jun [JP/JP]; Sorio Hanabatake 305, 2-11-2, Hanabatake, Tsukuba-shi, Ibaraki 300-3261 (JP). INO, Minoru [JP/JP]; 3497-3, Yoshinuma, Tsukuba-shi, Ibaraki

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(54) Title: APPARATUS FOR THE GENERATION OF FLUORINE GAS



(57) Abstract: An apparatus (30) for the generation of fluorine gas is provided with an electrolytic cell (32) that generates, in a first gas phase region on the anode side, product gas whose main component is fluorine gas and at the same time generates, in a second gas phase region on the cathode side, by-product gas whose main component is hydrogen gas. A first and second pressure gauges (46) and (48) are provided in order to measure the pressure in the first and second gas phase regions. A first and second conduits (52) and (72) are provided in order to withdraw the product gas and by-product gas. A first and second flow rate control valves are disposed in the first and second conduits (52) and (72). The apertures of the first and second flow rate control valves are adjusted based on the measurement results from the first and second pressures gauges (46) and (48) so as to maintain the pressures in the first and second gas phase regions at first and second set values that are substantially equal. In an alternative embodiment the apparatus contains means (87) to control the flow of IIF starting material into the cell on the basis of the total current that has flowed in the cell.

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