ABSTRACT

SLUDGE DEWATERING DEVICE

Sludge dewatering device that makes it possible to achieve a high degree of dryness while retaining a limited energy consumption and limited industrial risks, comprising at least one first plate (21a) equipped with a first electrode (23a), and at least one second plate (21b) equipped with a second electrode (23b), wherein the first and second plates (21a, 21b) define a chamber (22) configured for receiving a sludge to be dewatered (10a), wherein the first and second electrodes (23a, 23b) are configured for establishing an electric field within the chamber (22),

wherein the chamber (22) is equipped with at least one discharge port (32, 34), provided in the bottom third of the chamber (22), configured for discharging a filtrate (15a, 16a), and wherein the chamber (22) is equipped with at least one injection port (33), provided in the top third of the chamber (22), configured for injecting the pressurized purge fluid (11a) into the chamber (22).

Figure 2