

ABSTRACT**IMPROVED SYSTEM FOR AERATING A SUBMERGED MEMBRANE**

5 The present invention describes a system for aerating a submerged membrane. The system includes: a device for supplying compressed air; at least one orifice for aerating the submerged membrane; a pipe for feeding air from the air supplying device to the at least one aeration orifice; a first valve for opening or closing an orifice between the pipe and the surrounding air; a pressure sensor configured to measure
10 the pressure in the pipe. The system is configured to perform at least one iteration of an operation to evacuate solid materials from the pipe, said evacuation including at least: stopping supplying compressed air in the pipe and opening the first valve, causing reduction of the pressure in and penetration of liquid into the pipe; closing the first valve and resuming supplying compressed air in the pipe causing an
15 increase in the pressure in and expulsion of liquid from the pipe through the at least one aeration orifice. The system is characterized in that it includes a processor configured to receive pressure measurements from said pressure sensor that are performed during said evacuation operation and to detect an anomaly of the aeration system on the basis of a comparison of the pressure measurements and at least one
20 pressure threshold higher than or equal to the hydrostatic pressure of the column of liquid.

Figure 2 to be published.