8. Process according to any one of the preceding claims, characterized in that the flocculant is a polymer injected on immediately exiting the said restriction or restrictions (21, 44) or the valve (61).

9. Process according to any one of the preceding claims, characterized in that a portion of the flocculated emulsion is recycled in the first chamber (17).

10. Device (1) for the continuous treatment of an organic sludge comprising

means (3, 6) for feeding with the said sludge as a continuous stream at a flow rate q, either directly or via a first chamber (5) maintainable at a first pressure (P_1), of a second chamber (10, 33, 55) maintainable at a predetermined second mean pressure (P_2, P', P''_1, P''_2);

the said second chamber (10, 33, 55);

means for injecting air (11) into the said second chamber (10, 33, 55) at a flow rate Q, in order to obtain a first emulsion, forming a dispersed phase of sludge in a continuous phase of air which surrounds it in the said second chamber (10, 33, 55),

a restriction (21, 44) or a valve (61) arranged in order to create a predetermined pressure drop in the said first emulsion,

a third chamber (22, 43, 62) maintainable at a predetermined third pressure (P_{34}, P_2', P''_3) in the region located immediately downstream of the said restriction (21, 44) or valve (61),

means for injecting a flocculant (24, 45, 78) into the said region of the third chamber (22, 39, 62), in order to form a second emulsion of air in the thickened flocculated sludge,