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(71) Applicant: **UNIVERSIDAD DE SEVILLA** [ES/ES];
Paseo de las Delicias s/n, Pabellón de Brasil, 41013 Sevilla
(ES).

(72) Inventor: **DÁVILA MARTÍN, Javier**; UNIVERSIDAD
DE SEVILLA, Paseo de las Delicias s/n, Pabellón de Brasil,
41092 Sevilla (ES).

(74) Agent: **HOFFMANN EITLE S.L.U.**; Paseo de la Castel-
lana 140, 3ª Planta, Edificio Lima, 28046 Madrid (ES).

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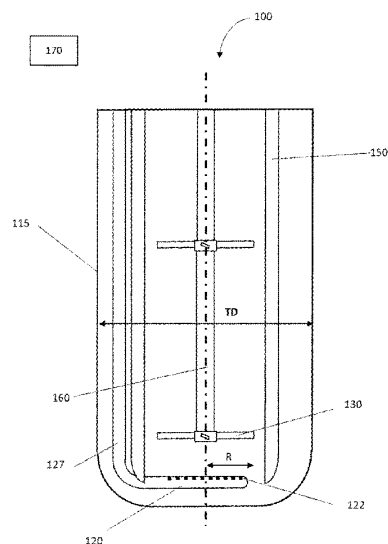


Fig. 1

(57) Abstract: The present invention refers to an agitator tank for the homogeneous distribution of bubbles in a liquid. The agitator tank comprises a liquid container 100, a gas injection system 120, at least one impeller 130, 140 and at least one baffle 150. The at least one impeller is rotatable about at least one axis of rotation and comprises one or more blades extending to a maximum distance R from the axis of rotation of the corresponding impeller. One or more impellers of the at least one impeller are shaped and oriented to induce axial flow of the liquid towards the gas injection system and the minimum distance of the at least one baffle to at least one axis of rotation is at most 1.2 R of any of the at least one impeller.

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