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71 Applicant: **L'AIR LIQUIDE GMBH**
Konrad-Adenauer-Platz 11
D-4000 Dusseldorf 1 (DE)

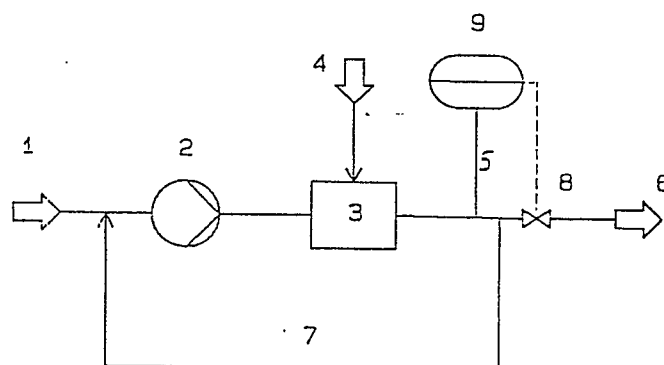
72 Inventor: **Schmitz, Udo**
Grünstraße 3
D-4010 Hilden (DE)

74 Representative: **Vesin, Jacques et al**
L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET
L'EXPLOITATION DES PROCEDES GEORGES CLAUDE
75, quai d'Orsay
F-75321 Paris Cédex 07 (FR)

54 **Equipment and process for dissolving gas in liquids.**

57 The invention relates to equipment for dissolving gas in liquids, which equipment consists of an inflow (1), a delivery pump (2), a reaction zone (3), a gas feed line (4) leading into the reaction zone (3), a measuring probe (5) fitted downstream of the reaction zone (3), an outflow (6), a recycle line (7) through which a part of the gas/liquid mixture continuously flows back to a point upstream of the reaction zone (3), and of a control element which is provided in the outflow (6) downstream of the recycle line (7) and which is opened and closed as a function of the control variable detected by the measuring probe and of a predetermined set value. The invention also relates to a process for dissolving gas in liquids by means of the equipment according to the invention.

Fig. 1





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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DE-A-2 454 526 (FÜLLPACK) * Figure 1; page 8, line 1 - page 9, line 16 * ---	1-10	C 02 F 1/66 B 01 F 3/04 B 01 J 10/00
X	DE-A-2 329 392 (DEUTSCHE TON- UND STEINZEUGWERKE AG) * Figure; claims * ---	1-10	
X	DE-A-2 232 341 (ORTMANN & HERBST) * Figure; claims * ---	1-10	
A	DE-A-2 438 279 (DEUTSCHE TON- UND STEINZEUGWERKE AG) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 02 F B 01 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-09-1989	Examiner KANOLDT W.W.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			