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(71) Applicant *(for all designated States except US)*: **THALES NANOTECHNOLÓGIAI ZRT.** [HU/HU]; Záhony u. 7., H-1031 Budapest (HU).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SZALAY, Dániel** [HU/HU]; Székely Bertalan u. 5., H-1062 Budapest (HU). **VARGA, Norbert** [HU/HU]; Május 1. út 56., H-2800 Tatabánya (HU). **BONCZ, Ferenc** [HU/HU]; Kárpát u. 58., H-1133 Budapest (HU). **DARVAS, Ferenc** [HU/HU]; Lisznyai u. 15., H-1016 Budapest (HU). **KARANCSI, Tamás** [HU/HU]; Hegyalja út 97., H-1124 Budapest (HU). **GÖDÖRHÁZY, Lajos** [HU/HU]; Mecseki u. 49., H-2030 Érd (HU). **ÜRGE, László** [HU/HU]; Feketerigó u. 50., H-1029 Budapest (HU).

(74) Agent: **DANUBIA PATENT & TRADEMARK ATTORNEYS**; Bajcsy-Zsilinszky út 16., H-1051 Budapest (HU).

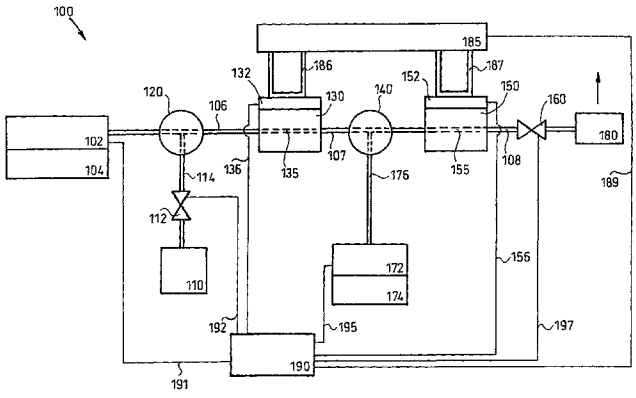
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(54) **Title:** FLOW-TYPE LABORATORY OZONOLYSIS APPARATUS AND METHOD OF PERFORMING OZONOLYSIS REACTION



(57) **Abstract:** A flow-type laboratory scale ozonolysis apparatus (100) according to the invention comprises a reservoir (104), a feed pump (102), a mixing element (120) with two inlets and an outlet, a reactor unit (110) and a pressure-adjusting means (160), all connected into a flow path. The ozonolysis apparatus (100) further comprises an ozone source (110), as well as a dispensing valve (112) transmitting a gas stream only in a single direction and installed between the ozone source (110) and one of the inlets of the mixing element (120). The feed pump (102) of the ozonolysis apparatus (100) according to the invention is a liquid pump generating a constant volume rate, the reservoir (104) contains at least the substance, as a solute, to be subjected to the ozonolysis reaction and the reactor unit consists of first and second reactor zones differing in function from one another. In the flow path, the outlet of the first reactor zone is connected to the inlet of the second reactor zone. Furthermore, an inlet for feeding in substances is inserted into the flow path between the reactor zones, and the pressure-adjusting means (160) is installed into the flow path after the reactor unit and is provided with an electrically governed control.

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