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(54) **Title:** INSTRUMENT AND PROCESS FOR NANOPARTICLES PRODUCTION IN CONTINUOUS FLOW MODE

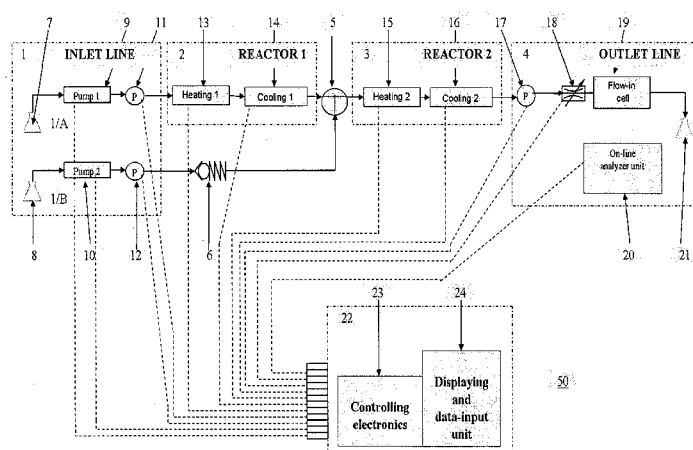


FIGURE 1

(57) **Abstract:** The subject of the invention is the (50) continuous flow system for the synthesis of nanoparticles which consist of the (1a) feeding unit connected to the flow path, at least one (2) first reactor unit possessing the (13) heatable reactor-zone, the (3) second reactor unit which follows (2) in the same cascade; the (5) mixing unit and the (1b) second feeding unit between (2) and (3) reactor units, the (9) and (10) feeding pumps connected to the raw material source and/or (22) control unit which is capable of controlling at least one (18) pressure controller and/or controlling the temperature of at least one (13) heatable reactor-zone; each (13) heatable reactor-zone is followed by (14) cooling unit in the cascade. In addition, the subject of this invention is a process for the synthesis of nanoparticles, preferably metal-containing nanoparticles, and nanoparticles of biologically active organic molecules wherein the process is accomplished in the device according to figure 1.