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(71) Applicant *(for all designated States except US)*: ASAHI KASEI KOGYO KABUSHIKI KAISHA [JP/JP]; 2-6, Dojimahama 1-chome, Kita-ku, Osaka-shi, Osaka 530 (JP).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: OHTA, Masanobu [JP/JP]; 173-3, Munadaka, Gunmamachi, Gunma-gun, Gunma 370-35 (JP). YOKURA, Morihide [JP/JP]; 5-9, Kamiosaki 4-chome, Shinagawa-ku, Tokyo 141 (JP).

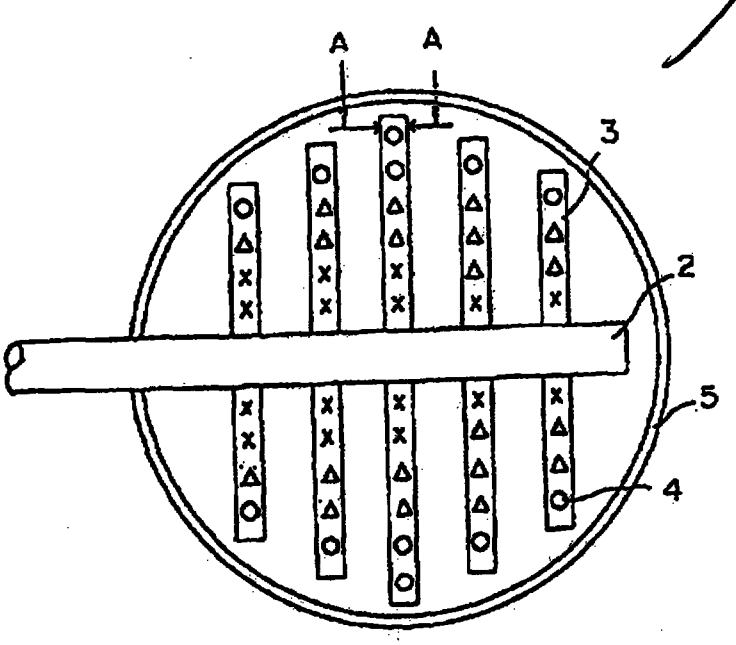
(74) Agents: HAGINO, Taira et al.; Eikoh Patent Office, ARK Mori Building, 28th floor, 12-32, Akasaka 1-chome, Minato-ku, Tokyo 107 (JP).

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(54) Title: FLUIDIZED-BED REACTOR AND REACTION PROCESS USING THE SAME



(57) Abstract

A fluidized-bed reactor for ammo-oxidation or oxidation and an ammo-oxidation or oxidation process using the reactor. The reactor comprises a vessel (5), a sparger for supplying and dispersing a gas containing an organic material, and a distributer for supplying and dispersing an oxygen-containing gas, the sparger comprising a header (2) and a plurality of dispersion pipes (3) connected laterally to the header (2), the dispersion pipes (3) each having a plurality of orifices (4), wherein the hole size of an orifice (4) farthest from the header (2) is larger than the hole size of an orifice (4) nearest the header (2), and the hole size of one orifice (4) is larger than or equal to the hole size of adjacent orifice (4) that is nearer the header (2) than the one orifice (4).