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(54) **APPARATUS FOR PRODUCING DIMETHYL ETHER**

(75) Inventors: **Tsutomu Shikada**, Fukuyama (JP); **Takashi Ogawa**, Yokohama (JP); **Masatsugu Mizuguchi**, Kunitachi (JP); **Masami Ono**, Yokohama (JP)

(73) Assignee: **NKK Corporation**, Tokyo (JP)

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(58) **Field of Search** 422/211, 223, 422/234, 187, 188; 518/700, 705, 706, 722, 728

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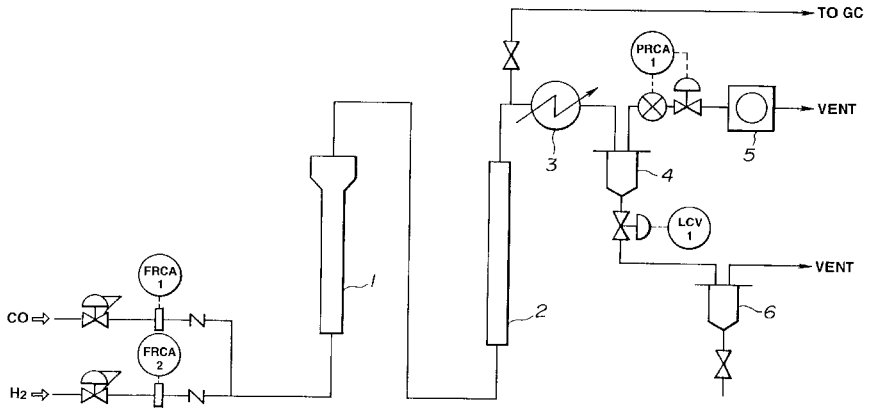
Primary Examiner—Glenn Caldarola
Assistant Examiner—Douglas W. Rudnick
(74) *Attorney, Agent, or Firm*—Frishauf, Holtz, Goodman & Chick, P.C.

(57) **ABSTRACT**

An apparatus for producing dimethyl ether comprising: a slurry-bed reactor filled with a dimethyl ether synthesis catalyst and a medium oil therefor; a condenser for condensing a gasified medium oil discharged from the reactor; an adsorber for removing a catalyst-deactivation ingredient from the medium oil condensed in the condenser; and recycle means for recycling the medium oil to the slurry-bed reactor.

8 Claims, 10 Drawing Sheets