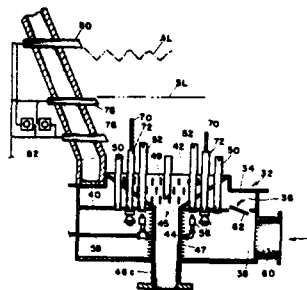


4345983

METHOD FOR DISPOSAL OF CHEMICAL WASTE

Jeffrey K. Wan; Assigned to Queen's University at Kingston

A process for the safe and efficient disposal of toxic chlorinated hydrocarbon waste materials in which the chlorinated hydrocarbon is brought into close surface contact with a finely divided para-or ferromagnetic material, such as a fluidized bed of iron powder, in the presence of high intensity microwave radiation, so as to effect an electron transfer reaction which yields chloride anions, which subsequently react with the iron to form ferrous chloride, and an organic radical which is readily oxidized, in the presence of gaseous oxygen, to carbon dioxide and water.



A fluidized bed combustor having in its distributor plate assembly at the bottom of the combustion chamber, air outlets in the distributor plate surface, air flow riser tubes projecting above said surface, light liquid fuel nozzles located adjacent certain of the riser tubes for injection of liquid fuel into the air forcefully flowing up these riser tubes, and the share of air flowing through the riser tubes relative to the share of air flowing through the outlets being controlled by regulating means.

4344796

CEMENTITIOUS COMPOSITIONS AND AGGREGATE DERIVATIVES FROM SAID COMPOSITIONS

John L. Minnick; Assigned to John L. Minnick

Cementitious compositions and aggregate derivatives of said compositions wherein fluidized bed combustion residue and possolanix material, such as pulverized coal combustion system fly ash, are incorporated in a cementitious mix. The mix is cast into desired shape and cured. If desired, the shape may then be crushed so as to result in a fluidized bed combustion residue-fly ash aggregate material or the shape may be used by itself.

4345914

METHOD OF HEATING FINE-GRAINED SOLIDS

Roland Rammler; Assigned to Metallgesellschaft Aktiengesellschaft

A Process for heating fine-grained solids, especially carbonaceous solids such as coke or oil shale, by a process wherein solids are heated to 500 degrees to 920 degrees C. in direct contact with hot gases in a plurality of heating stages, the last of which is a fluidized bed heating process

4345894

LIGHT FUEL START-UP FLUIDIZED BED COMBUSTOR

Willard P. Smith; Bruce Hutchinson; Assigned to Stone-Platt Fluidfire Limited

4344792

REDUCTION SMELTING PROCESS

Charles E. O'Neill; Assigned to Inco Ltd