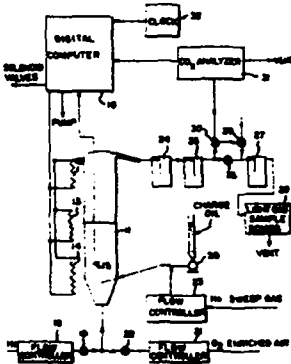


clean gas from the induced draft fan outlet boosted by a small auxiliary fan. The fluidized fine particles can be reinjected into the fluidized combustor bed by either dense phase transport or by dilute phase transport.

4419328

CONTROLLED FLUIDIZED BED REACTOR FOR TESTING CATALYSTS

Dennis E Walsh assigned to Mobil Oil Corporation



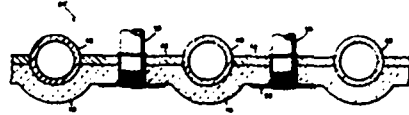
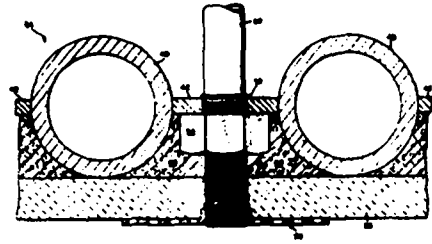
Apparatus for investigating the performance of a catalyst used in a catalytic cracking process includes a single fluidized bed reactor charged with the catalyst to be investigated and a digital computer which controls the supply of hydrocarbon feed stock and regenerating air in successive and repeated catalytic cracking intervals and catalyst regeneration intervals.

4418650

FLUIDIZED BED HEAT EXCHANGER HAVING AN INSULATED FLUID COOLED AIR DISTRIBUTOR PLATE ASSEMBLY

Richard C Johnson, Venkatraman Seshamani, Leigh B Egbert assigned to Foster Wheeler Energy Corporation

A fluidized bed heat exchanger in which an air distributor plate assembly is disposed within an enclosure for supporting a bed of particulate

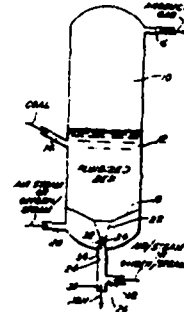


material. The plate assembly includes a plurality of horizontal, spaced tubes through which water is passed to cool the assembly. Air is passed from an air plenum through openings formed in the plate assembly to fluidize the particulate material. Insulation is disposed on the lower surface of the plate assembly to insulate the latter from the heat of the fluidizing air, and the upper surface of the plate assembly is insulated from the high temperatures occurring in the bed.

4416857

FLUIDIZED BED GASIFIER OR SIMILAR DEVICE FOR SIMULTANEOUS CLASSIFICATION OF ASH AND UNREACTED COAL

Karl Vorres assigned to Institute of Gas Technology



An apparatus for withdrawing agglomerated solids, e.g. ash, from a fluidized bed of finely divided solid hydrocarbonaceous material, e.g. coal, is described. Agglomeration is effected by a high temperature reaction between the inorganic