

4394281

COMPOSITION FOR USE IN A MAGNETICALLY FLUIDIZED BED

Ronald E Rosensweig assigned to Exxon Research and Engineering Co

A composition which exhibits high induced magnetism in a small applied magnetic field when formed into a magnetically stabilized fluidized bed and which comprises particles containing a nonferromagnetic component, or components, composited with one or a plurality of elongated ferromagnetic components oriented and present in each of said particles in relatively low concentration, based on the total volume of the particles; and a process wherein such composite particles are formed into a magnetically stabilized fluidized bed and contacted with a fluid, preferably gas.

4392814

FLUIDIZED BED

Brian Harding, West Bromwich, United Kingdom assigned to Can-Eng Holdings Limited

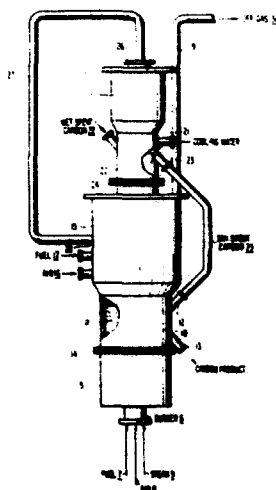
This invention relates to a fluidized bed for use in heat treating articles, the bed having a container for containing a mass of refractory particles. The container has a porous base and a supply pipe for supplying a fluidizing gas to the underside of the porous base from which the gas will flow through the porous base and into the mass of refractory particles. The fluidizing gas flows through an adjustable control valve arranged in the supply pipe. There are also provided at vertically spaced positions above the upper surface of the porous base a pair of temperature transducers which are connected together to provide a signal which is dependent

upon the difference in the temperatures at the vertically spaced positions, there being also provided power actuated means in the form of an electric motor which in use is arranged to receive the signal from the temperature transducers and then actuate the adjustable valve in accordance with the signal received.

4391586

TWO STAGE FLUID BED REGENERATOR

George N Brown assigned to Westvaco Corporation



Improved method and apparatus are disclosed for regenerating wet spent carbon containing volatile impurities wherein the wet spent carbon is dried in a drying zone utilizing incinerated reactivation zone gaseous effluent. The improvement of the invention provides that the portion of reactivation zone gaseous effluent used to dry the wet spent carbon in the drying zone is continuously recycled to the reactivation zone for incineration to remove any volatile impurities which may have been removed from the wet spent carbon during drying. The balance of the reactivation zone gaseous effluent may be discharged into the atmosphere without further incineration.

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