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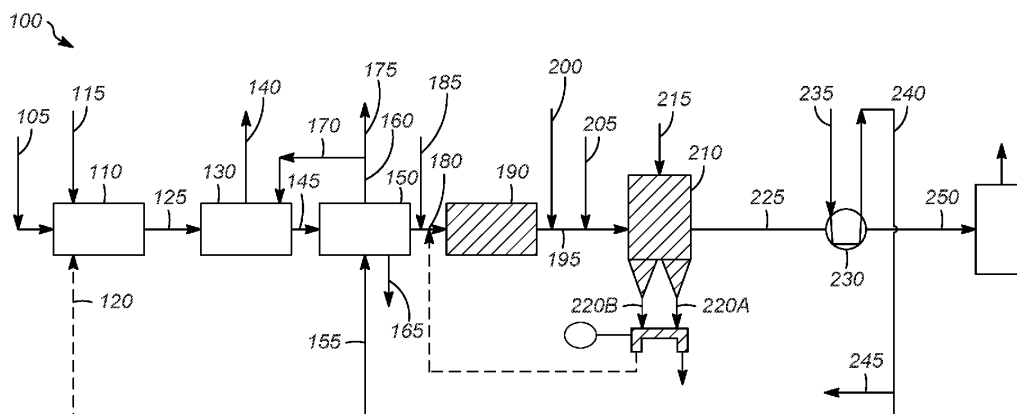
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(54) Title: ENERGY OPTIMIZATION IN FLUID CATALYTIC CRACKING AND DEHYDROGENATION UNITS



FIGURE

(57) Abstract: Processes involving the use of a dry sorbent injection (DSI) unit or slurry reagent injection (SRI) unit to remove sulfur compounds from flue gas are described. Flue gas from an FCC regenerator, for example, is used to make superheated steam and saturated steam. The flue gas is then sent to a DSI unit to remove the sulfur compounds, and then to an economizer (or heat exchanger) to heat boiler feed water or combustion air. Because the temperature is not reduced as much as with a wet scrubber process, additional energy can be recovered in the economizer.

[Continued on next page]

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