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(54) Title: PROCESS FOR PRODUCING AND COOLING TITANIUM DIOXIDE

(57) Abstract: An improved process for producing titanium dioxide wherein gaseous titanium tetrachloride and oxygen are reacted at a high temperature to produce particulate solid titanium dioxide and gaseous reaction products is provided. The titanium dioxide and gaseous reaction products are cooled by passing them through a tubular heat exchanger along with a scouring medium for removing deposits from the inside surfaces of the tubular heat exchange. By this invention, the particulate scouring medium, the particulate titanium dioxide and the gaseous reaction products are caused to follow a spiral path as they flow through the tubular heat exchanger whereby the scouring medium more thoroughly removes the deposits and the titanium dioxide and gaseous reaction products are cooled more efficiently.