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(54) Title: CONCURRENT FLOW OF ACTIVATING GAS IN LOW TEMPERATURE CARBURIZATION

(57) Abstract: Low temperature gas carburization of stainless steel using acetylene as the carburizing specie is carried out under soft vacuum conditions in the presence of hydrogen or other companion gas. Carburization is made to go faster by including HCl or other carbon-free, halogen-containing activating compound in the carburizing gas being fed to the carburization reactor.

