

ABSTRACT

IMPROVED METHOD AND APPARATUS FOR ACHIEVING HIGH REACTION RATES

A chemisorption reaction process is carried out under conditions in which the volumetric expansion of the complex compound reaction product is restricted, and at half-cycle reaction periods of less than 30 minutes each, and/or in a reaction chamber having a maximum mean mass diffusion path length of less than about 15 mm, and/or a maximum heat diffusion path length of less than 1.5 mm.

FIGURE 1