

FIG. 1

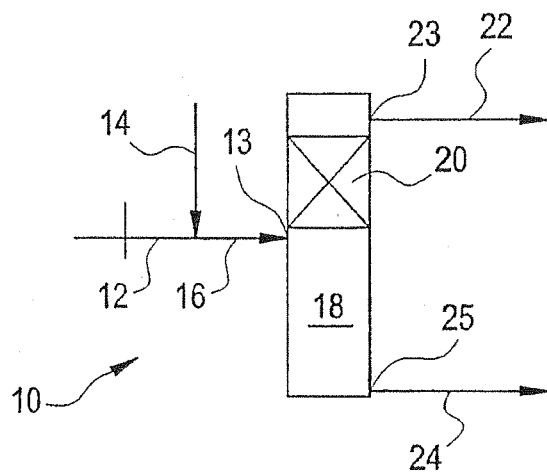


FIG. 2

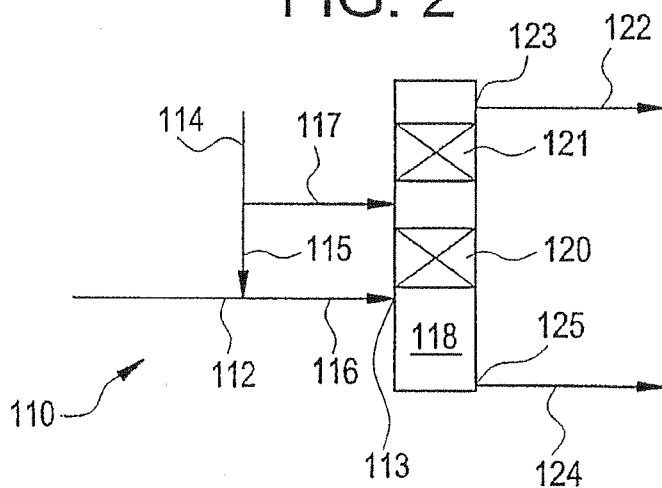


FIG. 3

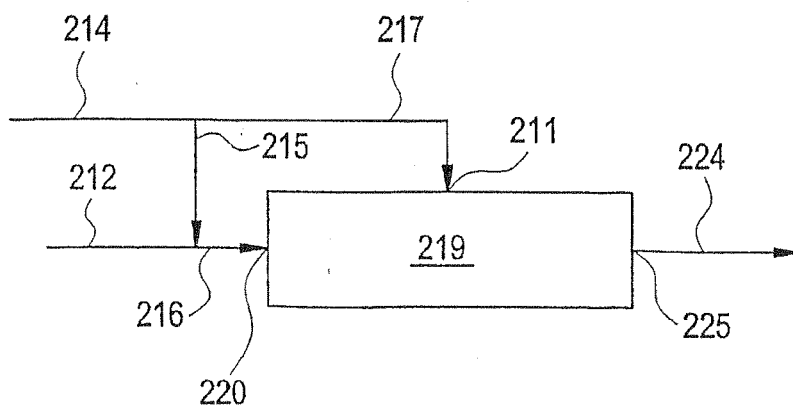


FIG. 4

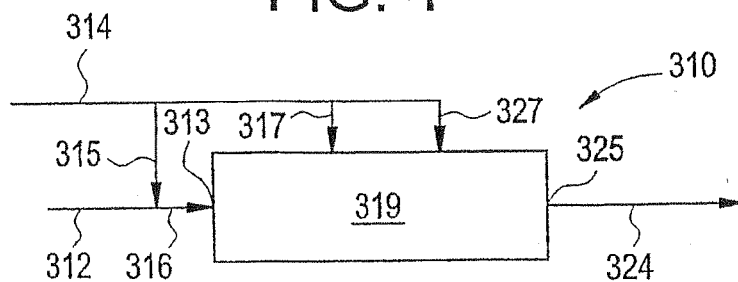


FIG. 5

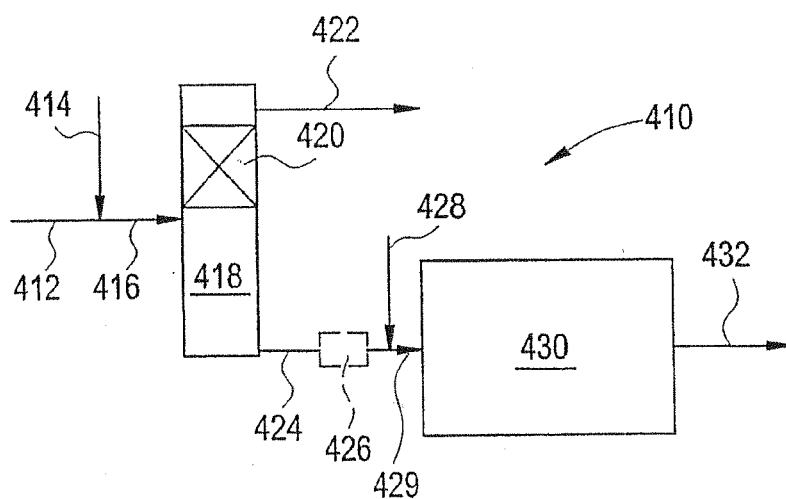


FIG. 6

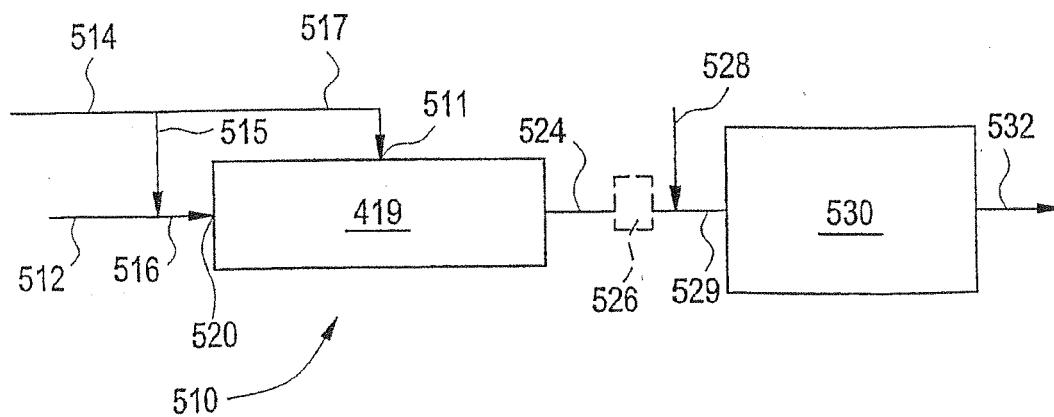


FIG. 7

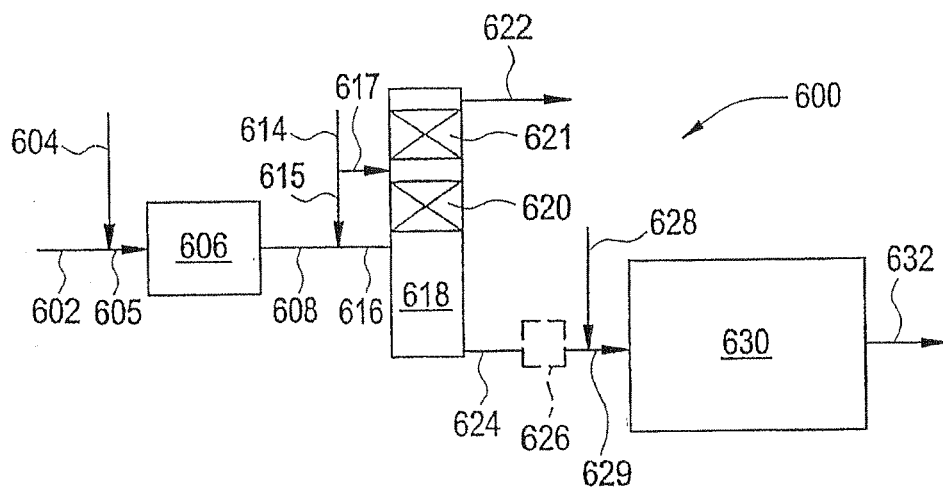


FIG. 8

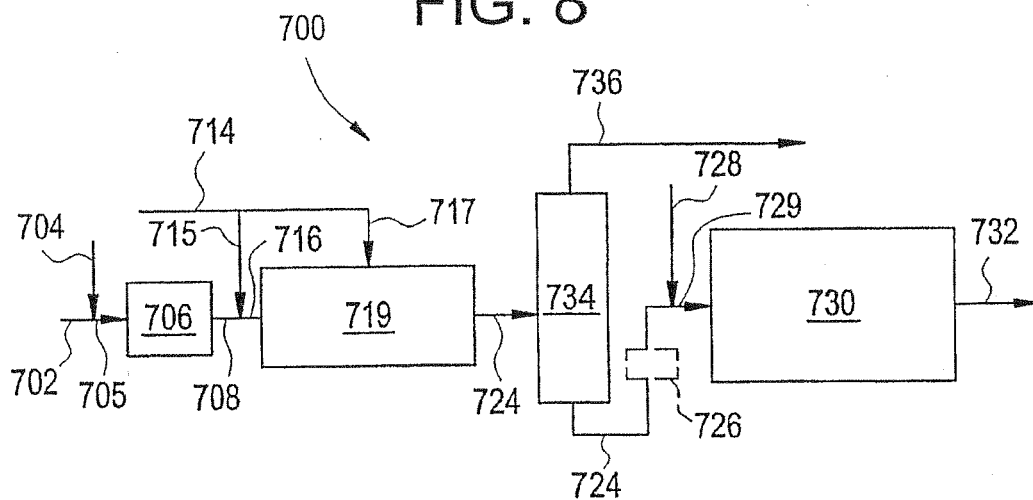
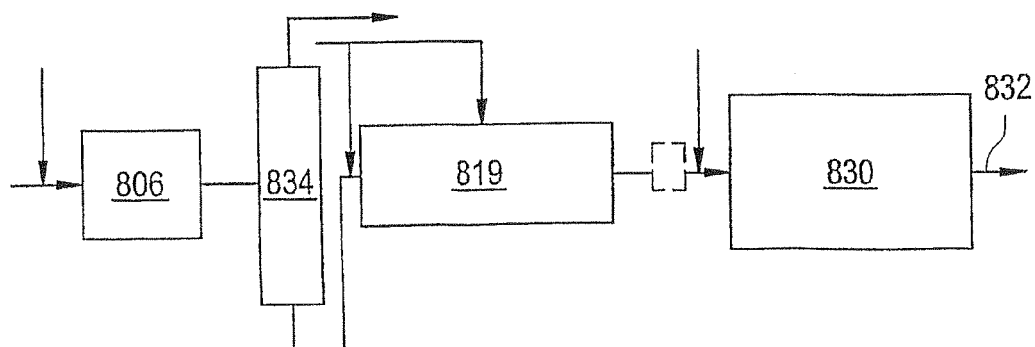
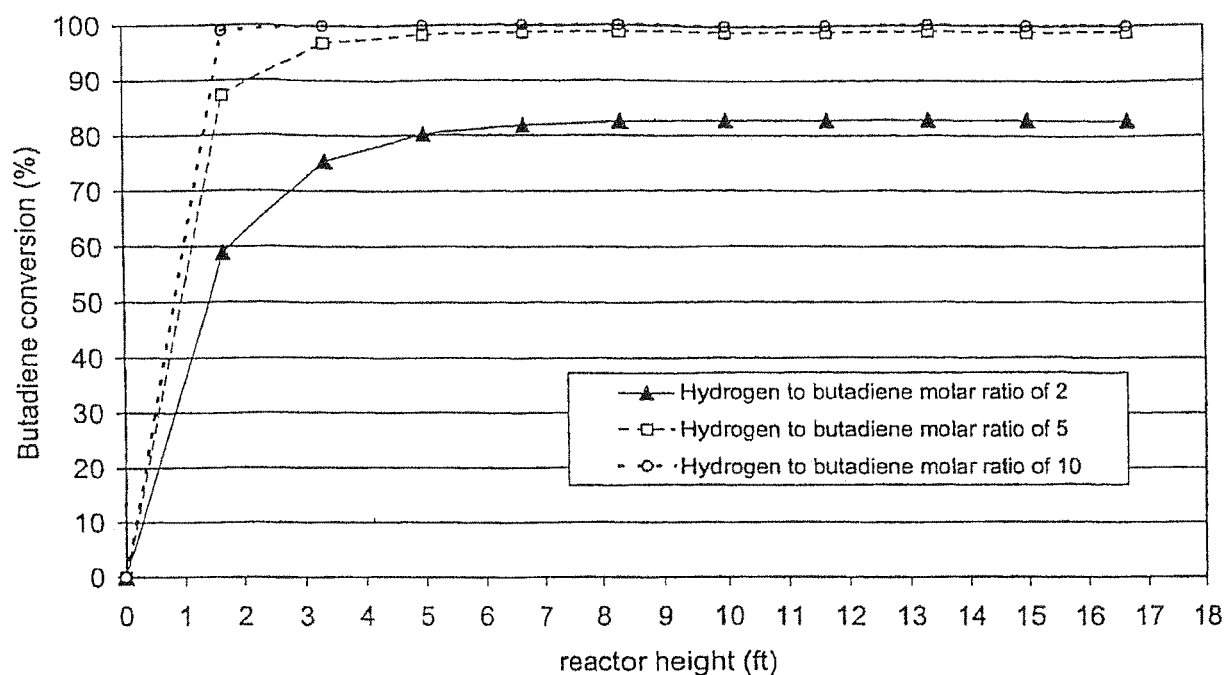
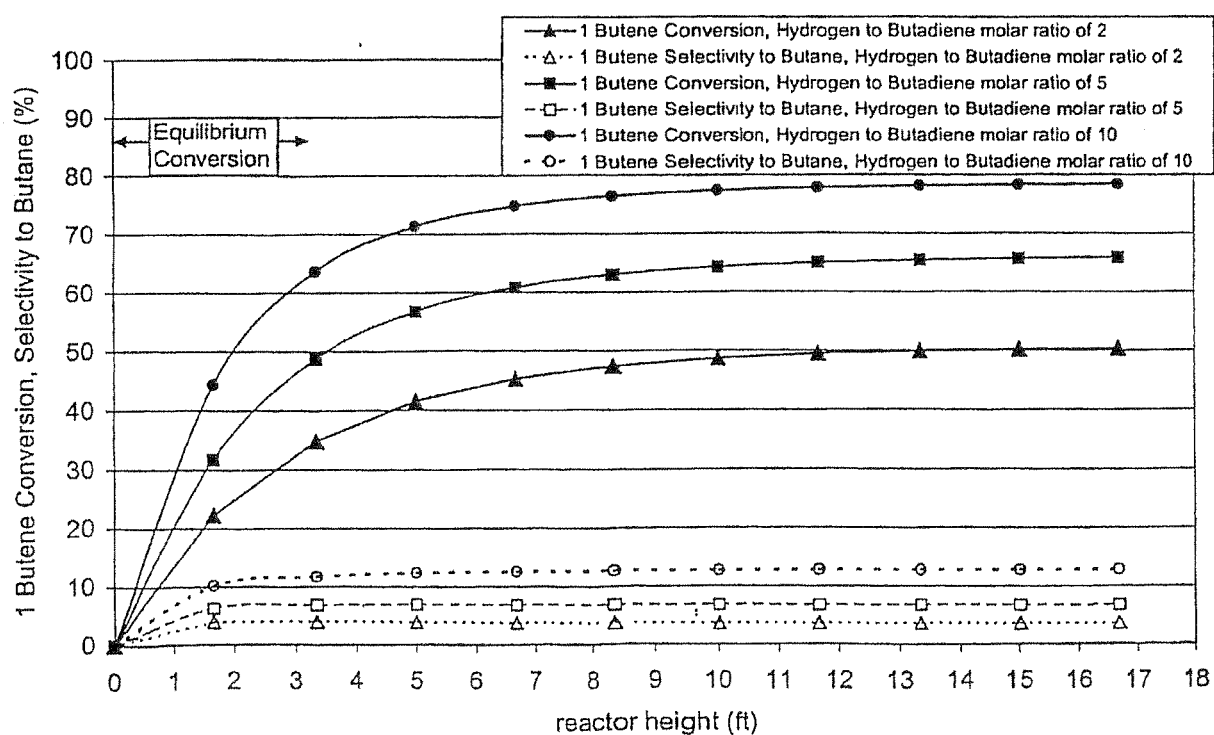


FIG. 9



Figure 10: Effect of H₂ flow rate on butadiene conversionFigure 11: Effect of H₂ flow rate on 1-Butene conversion and selectivity

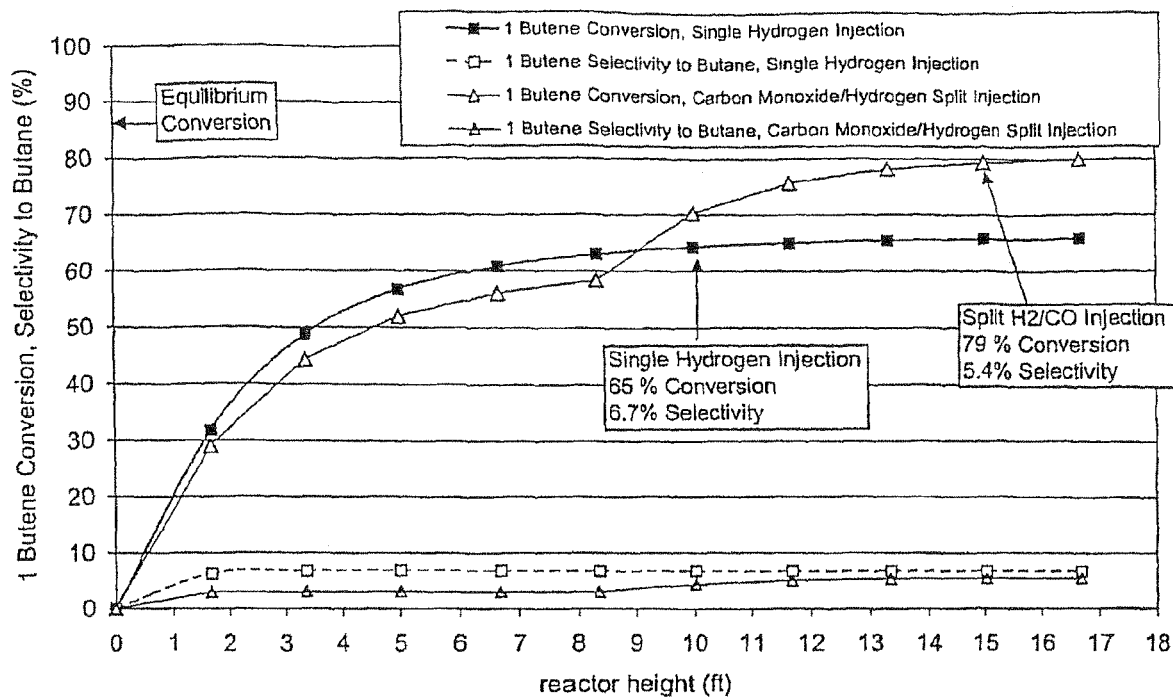
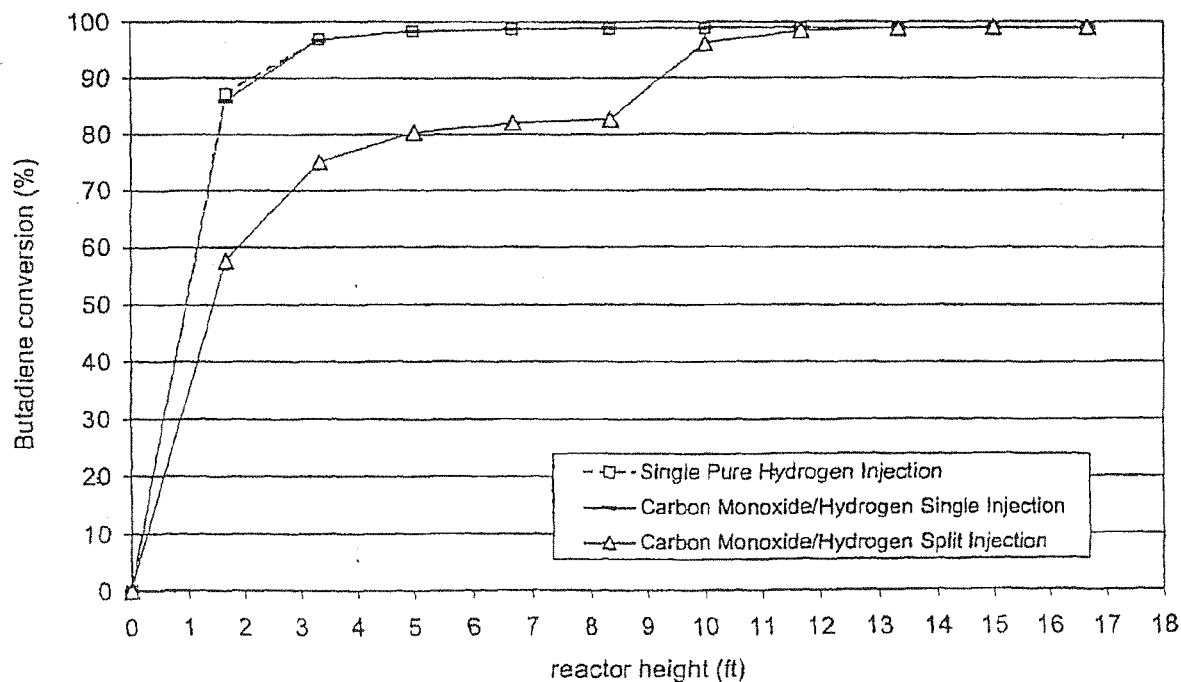
Figure 12: Effect of H₂ injections on 1-Butene conversion and selectivity

Figure 13: Effect of CO and partial injections on BD conversion

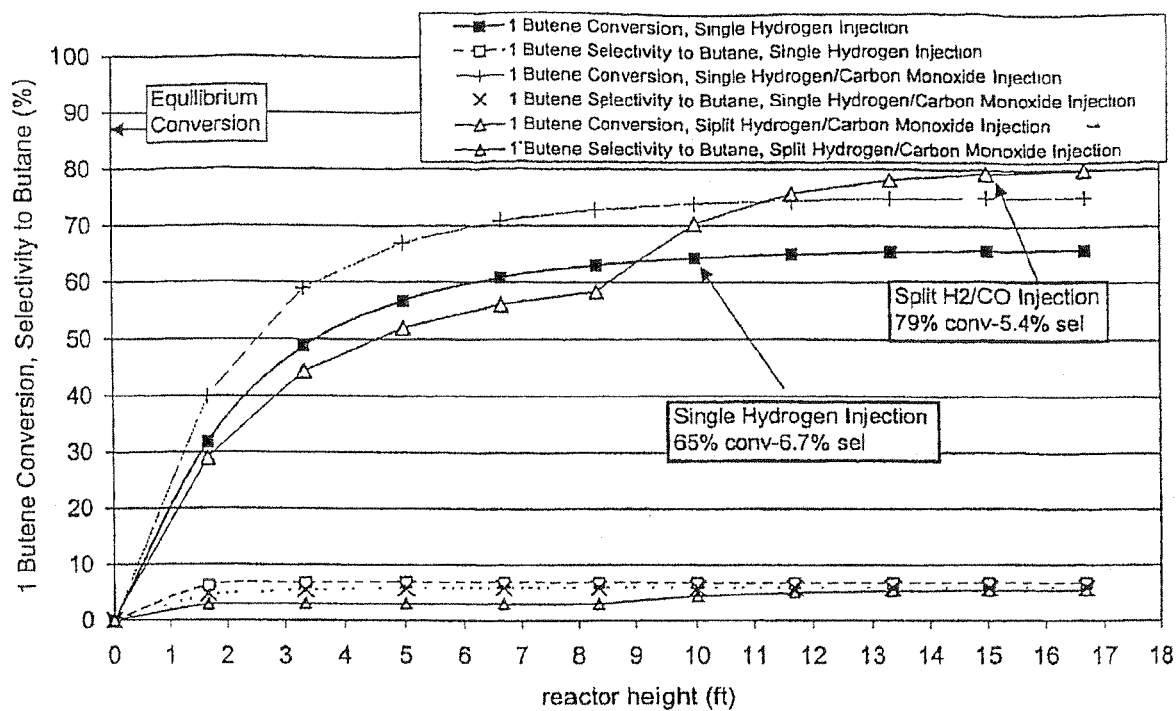


Figure 14: Effect of CO and partial injections on 1-Butene conversion and selectivity