

ABSTRACT

MULTITUBULAR REACTION APPARATUS FOR CONTACT GAS-PHASE REACTION

5 A multitubular reaction apparatus for contact gas-phase reaction comprising a plurality of reaction tubes parallel arranged, a baffle capable of altering the moving direction of a heat medium introduced into a reactor shell to a direction perpendicular to the longitudinal direction of the reaction
10 tube, a space section arranged with no reaction tube and provided to a part of a portion where the heat medium flows in the plane direction of the baffle, and a straightening rod group provided between the space section and the reaction tube and having a longitudinal direction identical to that of the
15 reaction tube. The straightening rod group is preferably arranged within a range of one to ten rows between the space section and the reaction tube. Dummy reaction tubes filled with no catalyst are arranged preferably as the straightening rod group. The multitubular reaction apparatus for contact
20 gas-phase reaction is especially preferably employed in production of chlorine gas.

Figure 1