

ABSTRACT

REACTOR

A reactor (1) includes: a main reactor core (3) including main reaction flow channels (11) through which the raw material fluid flows, and main temperature control
5 flow channels (17) through which the heat medium flows along a flow direction of the raw material fluid flowing in the main reaction flow channel (11); and a pre-reactor core (29) including pre-reaction flow channels (37) of which an outlet side connects with an inlet side of the main reaction flow channels (11) and through which the raw material
10 fluid flows, and pre-temperature control flow channels (43) of which an inlet side connects with an outlet side of the main reaction flow channels (11) and through which the product serving as the heat medium flows along a flow direction of the raw material fluid flowing in the pre-reaction flow channel (37).

FIG. 1