

"Combinatorial Catalytic Reactor"

ABSTRACT

A reactor for conducting catalytic chemical reactions has been developed. The reactor has a well having an open end and a closed end. The reactor also has a sleeve
5 having a top end and a bottom end. The bottom end of the sleeve is inserted within the open end of the well. A fluid permeable structure is attached to the sleeve spanning the cross-section thereby defining a chamber between the closed end of the well and the fluid permeable structure. The reactor also has a reactor insert having a fluid permeable
10 end and a top end containing a first and a second fluid conduit. The fluid permeable end of the reactor is inserted within the open end of the sleeve. The first fluid conduit is in fluid communication with the chamber, and the second fluid conduit is in fluid communication with the fluid permeable end of the reactor insert.

