

ABSTRACT

The present invention provides a microreactor system that can mix fluids at precise timing. A microreactor system (1) includes a microreactor (10) that has two inlets into which fluids are introduced and merges, in a channel, a first fluid introduced from a first inlet and a second fluid introduced from a second inlet, a first pump (112) that sends the first fluid toward the inlets, and a second pump (122) that sends the second fluid toward the inlets, a first fluid detector (113) that detects an arrival of the first fluid at the first inlet, and a second fluid detector (123) that detects an arrival of the second fluid at the second inlet, in which the first pump (112), after starting the transfer of the first fluid toward the first inlet, stops the transfer by detection by the first fluid detector (113), the second pump (122), after starting the transfer of the second fluid toward the second inlet, stops the transfer by detection by the second fluid detector (123), each of the first pump (112) and the second pump (122) resumes the transfer after the transfer of the first fluid is stopped and after the transfer of the second fluid is stopped, and the first fluid of which transfer has been temporarily stopped and the second fluid of which transfer has been temporarily stopped are introduced into the microreactor (10) and mixed.

FIG. 1