

the inlet of the first fluid path being fluidly connectable to a first source of fluid;

the inlets of the second and third fluid paths being fluidly connectable to a second source of fluid;

a first connecting path fluidly connecting the first fluid path and the second fluid path downstream of the inlet end of each; and

a second connecting path fluidly connecting the second fluid path and the third fluid path downstream of the inlet end of each, and downstream of the connection of the second fluid path to the first connecting path.

**84.** The apparatus of claim 83, wherein the third fluid path is not connected to any other fluid path between its inlet and its connection to the second connecting fluid path.

**85.** A method comprising:

flowing a first fluid in a first channel and a second fluid in a second channel and in a third channel;

mixing at least a portion of the first fluid with the second fluid in the second channel to produce a third fluid; and

mixing at least a portion of the third fluid with the second fluid in the third channel to produce a fourth fluid.

**86.** The method of claim 85 further comprising flowing the second fluid in a fourth channel and mixing at least a portion of the fourth fluid with the second fluid in the fourth channel to produce a fifth fluid.

**87.** The method of claim 85 wherein all of the second fluid in the second channel is mixed with the at least a portion of the first fluid to produce the third fluid.

**88.** The method of claim 85 further comprising sensing the third fluid and the fourth fluid.

**89.** The method of claim 88 wherein the third and fourth fluids are sensed concurrently.

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