

WHAT IS CLAIMED IS:

1. An apparatus for delivery of an additive to a reaction or mixing site, comprising:
 - at least two additive sources – a first additive source (17) and a second
 - 5 additive source (23) detachably connected via a conduit to a means of ingress to the reaction or mixing site; and
 - wherein:
 - the first additive source is connected to the second additive source such that the flow between the first additive source and the second additive source can
 - 10 be shut off;
 - the first additive source comprises a first additive;
 - the first and second additive sources being connected directly to, and controlled by, a process control means (10); and
 - wherein the process control means is capable of controlling flow of the at least
 - 15 one additive from the at least one additive source to the means of ingress, wherein controlling flow includes initiation, cessation, and rate of flow of the at least one additive.
2. The apparatus of claim 1 wherein the at least two additive sources are selected
- 20 from the group consisting of canisters, iso containers, cylinders, and combinations thereof.
3. The apparatus of claim 1 or 2 wherein the process control means comprises automated means that send or receive electrical signals to or from at least one device
- 25 selected from the group consisting of pumps, valves, meters, conduits, and combinations thereof.
4. A method for delivery of an additive to a reaction or mixing site, the method comprising
- 30 motivating at least one additive to flow from a first additive source (17) to a second additive source (23) such that the flow between the first additive source and the second additive source can be shut off;
 - motivating the at least one additive to flow from the second additive source via at least one conduit to and through a means of ingress to the

reaction or mixing site, such that the flow between the second additive source and the reaction or mixing site can be cut off;

the first and second additive sources being also connected directly to, and controlled by, a process control means (10),

5 the process control means motivating and controlling initiation, cessation, and rate of flow of the at least one additive from the first and second additive sources via at least one conduit to the means of ingress to the reaction or mixing site, under conditions such that the at least one additive is delivered at a pre-selected time, for a pre-selected duration, and at a pre-selected rate.

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