Claims

1. A method of cleaning a gas inlet nozzle of an abatement burner combustion chamber, the abatement burner intermittently receiving gas for combustion from a feed process wherein the content of the gas from a feed process may vary, the nozzle comprising a cleaning mechanism including a movable cleaning member for removing unwanted deposits from the nozzle, the cleaning member being movable from a retracted first position wherein the cleaning member is outside a path of a flame associated with the nozzle to a second cleaning position wherein the cleaning member is in the path of the flame associated with the nozzle; the method comprising the steps of:
   a. identifying a step in the feed process when a specific gas chemistry is being provided to the abatement system for combustion; and
   b. directing the movement of the cleaning member to ensure the cleaning member is in the first position for the duration of the identified step.

2. The method according to claim 1 further comprising identifying all such steps in the feed process and directing the movement of the cleaning member to ensure the cleaning member is in the first position for the duration of all the identified steps.

3. The method according to any one of claims 1 to 2 comprising the step of moving the cleaning member to the second position when the nozzle flame is out of use.

4. The method according to any preceding claim comprising the step of returning the cleaning member to first position before the occurrence of one of the identified steps and/or the nozzle flame is returned to use.

5. A method or system according to any preceding claim wherein the cleaning member is a helical cleaning spring.