## CLAIMS

1. A dental cleaning appliance comprising:

a handle;

a fluid delivery system for delivering working fluid to the teeth of a user; and

a control circuit for actuating the delivery of working fluid to the teeth of the user depending on a received input;

wherein, for each input, the control circuit is arranged to actuate the delivery of a series of bursts of working fluid to the teeth of the user, and wherein the received input is an output from a sensor; and

wherein the control circuit is configured to actuate the delivery of working fluid to the teeth of the user depending on a rate of change of the output from the sensor.

2. An appliance according to claim 1, wherein the sensor is a motion detection sensor.

3. An appliance according to claim 1 or claim 2, wherein the sensor is a Hall effect sensor.

4. An appliance according to any preceding claim, wherein the sensor is located in the handle.

5. An appliance according to any preceding claim, wherein the fluid delivery system comprises a source of pressurized working fluid and a valve, and the control circuit is configured to open the valve to deliver a burst of working fluid to the teeth of a user.

6. An appliance according to claim 5, wherein the source of pressurized working fluid comprises a fluid chamber, and wherein the fluid chamber has a capacity in the range from 0.1 to 1 ml.

7. An appliance according to claim 6, wherein the capacity of the fluid chamber is substantially the same as the volume of a single series of bursts of working fluid.

8. An appliance according to claim 6, wherein the capacity of the fluid chamber is greater than the volume of a single series of bursts of working fluid.

9. An appliance according to any one of claims 5 to 8, wherein the valve is a solenoid valve.

10. An appliance according to any preceding claim, wherein, within a series, the time period between bursts of working fluid is substantially the same.

11. An appliance according to any preceding claim, wherein, within a series, the time period between bursts of working fluid is in the range from 1 to 25 ms.

12. An appliance according to any preceding claim, wherein, within a series, the number of bursts of working fluid is in the range from two to ten.

13. An appliance according to any preceding claim, wherein, within a series, the bursts have substantially the same volume.

14. An appliance according to any preceding claim, wherein each burst of working fluid has a volume in the range from 0.05 to 0.5 ml.

15. An appliance according to any preceding claim, wherein the working fluid is a liquid working fluid.