CLAIMS:

1. An arrangement of actuator components comprising:

a first actuator component and a second actuator component provided in a staggered arrangement relative to a common axis, such that first and second actuator components partially overlap; wherein each actuator component comprises:

a plurality of nozzles arranged in at least one nozzle array, the nozzle array comprising:

a first portion comprising a first subset of the plurality of nozzles, wherein the first subset of nozzles are arranged along a nozzle array axis and are separated by a constant nozzle pitch which is constant between a first end of the first portion and a second end of the first portion; and

a second portion comprising a second subset of the plurality of nozzles, wherein the second subset of nozzles are arranged along the nozzle array axis and are separated by a variable nozzle pitch which decreases between a first end of the second portion and a second end of the second portion, wherein the first end of the second portion abuts the second end of the first portion.

2. The arrangement of actuator components as claimed in claim 1 wherein the variable nozzle pitch is defined by a first function which decreases with distance between the first end of the second portion and the second end of the second portion; wherein the first function defining the variable nozzle pitch is a non-linear function.

3. The arrangement of actuator components as claimed in claim 1 or 2 wherein the variable nozzle pitch of the second portion decreases gradually away from the constant nozzle pitch with distance between the first end and the second end of the second portion.

4. The arrangement of actuator components as claimed in any preceding claim wherein the nozzle array further comprises:

a third portion comprising a third subset of the plurality of nozzles, wherein the third subset of nozzles are arranged along the nozzle array axis and separated

by a further variable nozzle pitch which varies from a first end of the third portion to a second end of the third portion.

5. The arrangement of actuator components as claimed in claim 4 wherein the first portion of the nozzle array is provided between the second portion and the third portion, such that the second end of the third portion abuts the first end of the first portion, and the second end of the first portion abuts the first end of the second portion; and

wherein the further variable nozzle pitch is defined by a second function which varies with distance between the first end of the third portion and the second end of the third portion.

6. The arrangement of actuator components as claimed in claim 4 or claim 5 wherein the further variable nozzle pitch of the third portion varies gradually away from the constant nozzle pitch with distance between the first end and the second end of the third portion.

7 The arrangement of actuator components as claimed in any one of claims 4 to 6 wherein:

the further variable nozzle pitch of the third portion increases gradually away from the constant nozzle pitch with distance between the first end and the second end of the third portion.

8. The arrangement of actuator components as claimed in any one of claims 4 to 6 wherein:

the variable nozzle pitch of the second portion is similar to the constant nozzle pitch at the first end of the second portion, and decreases gradually away from the constant nozzle pitch with distance towards the second end of the second portion; and

the further variable nozzle pitch of the third portion is similar to the constant nozzle pitch at the second end of the third portion, and increases gradually away from the constant nozzle pitch with distance towards the first end of the third portion.

9. The arrangement of actuator components as claimed in any one of claims 4 to 8 wherein the second portion of the nozzle array of the first actuator component at least partially overlaps the third portion of the nozzle array of the second actuator component.

10. A droplet deposition apparatus comprising at least one arrangement of actuator components according to any one of claims 1 to 9.

11. A droplet deposition head comprising:

a first actuator component and a second actuator component, wherein the actuator components are provided in a plane of the droplet deposition head in a staggered arrangement with an overlap portion between the actuator components, wherein each actuator component comprises:

a plurality of nozzles arranged in at least one nozzle array;

a first portion comprising a first subset of the plurality of nozzles of the nozzle array, wherein the first subset of nozzles are arranged along a nozzle array axis and are separated by a constant nozzle pitch which is constant between a first end of the first portion and a second end of the first portion;

a second portion comprising a second subset of the plurality of nozzles of the nozzle array, wherein the second subset of nozzles are arranged along the nozzle array axis and are separated by a variable nozzle pitch which decreases between a first end of the second portion and a second end of the second portion, wherein the first end of the second portion abuts the second end of the first portion; and

a third portion comprising a third subset of the plurality of nozzles of the nozzle array, wherein the third subset of nozzles are arranged along the nozzle array axis and separated by a further variable nozzle pitch which varies from a first end of the third portion to a second end of the third portion, wherein the second end of the third portion abuts the first end of the first portion.

12. A method of assembling a droplet deposition apparatus according to claim 10 when dependent on any of claims 4 to 9, the method comprising:

arranging the first actuator component in a plane of the droplet deposition apparatus; and

arranging the second actuator component in the plane of the droplet deposition apparatus in a staggered arrangement relative to the first actuator component, such that the second portion of the nozzle array of the first actuator component at least partially overlaps the third portion of the second actuator component.

13. A method of operating a droplet deposition apparatus according to claim 10 when dependent on any of claims 4 to 9, the method comprising: selecting a first nozzle from the second portion of the nozzle array of the first actuator component, and selecting a second nozzle from the third portion of the nozzle array of the second actuator component, the selected first nozzle and second nozzle forming a suitably aligned pair of nozzles.

14. The method as claimed in claim 13 wherein selecting the first nozzle and the second nozzle comprises: selecting a first nozzle and a second nozzle which have a minimal misalignment value.

15. The method as claimed in claim 13 or claim 14 wherein selecting the first nozzle and the second nozzle comprises: selecting a first nozzle and a second nozzle which provide a minimal jump in pitch at a switch point between the first and second actuator components.

16. The method as claimed in any one of claims 13 to 15 further comprising:

disabling one of the first nozzle and the second nozzle of the aligned pair of nozzles;

disabling the nozzles of the second portion extending from the selected first nozzle towards the second end of the second portion; and

disabling the nozzles of the third portion extending from the selected second nozzle towards the first end of the third portion.

17. The method as claimed in claim 13 wherein the droplet deposition apparatus is configured to operate in a first mode at a first resolution and in a second mode

at a second resolution, wherein the second resolution is a multiple of the first resolution, and wherein the method further comprises:

selecting, for the first mode, a first nozzle from the second portion of the nozzle array of the first actuator component, and selecting a second nozzle from the third portion of the nozzle array of the second actuator component, the selected first nozzle and second nozzle forming a suitably aligned first pair of nozzles for the first mode; and

selecting, for the second mode, a third nozzle from the second portion of the nozzle array of the first actuator component, and selecting a fourth nozzle from the third portion of the nozzle array of the second actuator component, the selected third nozzle and fourth nozzle forming a suitably aligned second pair of nozzles for the second mode.

18. The method as claimed in claim 13 wherein at least one row in each nozzle array of the first actuator component and the second actuator component is configured to deposit a first fluid, and at least one row in each nozzle array of the first actuator component and the second actuator component is configured to deposit a second fluid, the method comprising:

selecting, from the row configured to deposit the first fluid, a first nozzle in the second portion of the nozzle array of the first actuator component, and selecting a second nozzle in the third portion of the nozzle array of the second actuator component, the selected first nozzle and second nozzle forming a suitably aligned first pair of nozzles; and

selecting, from the row configured to deposit the second fluid, a third nozzle in the second portion of the nozzle array of the first actuator component, and selecting a fourth nozzle in the third portion of the nozzle array of the second actuator component, the selected third nozzle and fourth nozzle forming a suitably aligned second pair of nozzles.

19. The method as claimed in claim 18 further comprising:

disabling one of the first nozzle and the second nozzle of the first aligned pair of nozzles;

disabling, in the row configured to deposit the first fluid in the nozzle array of the first actuator component, the nozzles of the second portion extending from the selected first nozzle towards the second end of the second portion;

disabling, in the row configured to deposit the first fluid in the nozzle array of the second actuator component, the nozzles of the third portion extending from the selected second nozzle towards the first end of the third portion;

disabling one of the third nozzle and the fourth nozzle of the second aligned pair of nozzles;

disabling, in the row configured to deposit the second fluid in the nozzle array of the first actuator component, the nozzles of the second portion extending from the selected third nozzle towards to the second end of the second portion; and

disabling, in the row configured to deposit the second fluid in the nozzle array of the second actuator component, the nozzles of the third portion extending from the selected fourth nozzle towards the first end of the third portion.

20. Control circuitry to perform the method according to any one of claims 13 to 19.

21. A non-transitory data carrier carrying code which, when implemented on a processor, causes the processor to carry out the method according to any one of claims 13 to 19.