CLAIMS

1. A conducted electrical weapon comprising:

a magazine comprising a plurality of firing tubes;

a plurality of wire-tethered electrodes, wherein each firing tube of the plurality of firing tubes is configured to receive a single, different electrode of the plurality of wire-tethered electrodes; and

a housing comprising:

a user control interface;

a signal generator configured to generate a first voltage of a stimulus signal and a second voltage of the stimulus signal;

a selector circuit configured to selectively couple the signal generator to the plurality of wire-tethered electrodes; and

a processing circuit coupled to the user control interface, the signal generator and the selector circuit, wherein the processing circuit is configured to perform operations comprising:

receiving a first activation signal of a sequence of activation signals via the user control interface;

deploying a single first electrode of the plurality of wire-tethered electrodes toward a remote location in response to the first activation signal of the sequence of activation signals;

receiving a second activation signal of the sequence of activation signals via the user control interface;

deploying a second electrode of the plurality of wire-tethered electrodes toward the remote location in response to the second activation signal of the sequence of activation signals;

coupling the first voltage of the stimulus signal to the single first electrode via the selector circuit; and

coupling the second voltage of the stimulus signal to the second electrode via the selector circuit.

2. The conducted electrical weapon of claim 1, wherein the single first electrode is disposed parallel to the second electrode in the magazine prior to being deployed in response to the first activation signal.

3. The conducted electrical weapon of claim 2, wherein the single first electrode is configured to launch from the magazine at a first location, wherein the second electrode is configured to launch from the magazine at a second location, and wherein a spacing between the first location and the second location is less than 1.0 inches.

4. The conducted electrical weapon of claim 3, wherein coupling the first voltage of the stimulus signal comprises coupling the first voltage of the stimulus signal to the single first electrode after the second electrode is deployed.

5. The conducted electrical weapon of claim 3, wherein coupling the first voltage of the stimulus signal comprises coupling the first voltage of the stimulus signal to the single first electrode after both deploying the single first electrode and deploying the second electrode.

6. The conducted electrical weapon of claim 3, wherein deploying the second electrode includes deploying a single second electrode.

7. The conducted electrical weapon of claim 6, wherein the processing circuit is further configured to:

delay deployment of the second electrode for a minimum period of time after the single first electrode is deployed; and

enable the deployment of the second electrode after the minimum period of time has elapsed.

8. The conducted electrode weapon of claim 6, wherein the single first electrode is coupled to the signal generator via a first filament and the second electrode is coupled to the signal generator via a second filament, and wherein a length of the first filament is at least thirty feet and a length of the second filament is at least thirty feet.

9. The conducted electrical weapon of claim 3, wherein deploying the single first electrode comprises deploying the single first electrode after deploying the second electrode.

10. The conducted electrode weapon of claim 3, wherein deploying the second electrode comprises deploying a plurality of second electrodes of the plurality of wire-tethered electrodes in response to the second activation signal.

11. A method performed by a conducted electrical weapon, the method comprising:

receiving, via a user control interface of the conducted electrical weapon, a first activation signal of a sequence of activation signals;

deploying a single first electrode of a plurality of wire-tethered electrodes toward a remote location in response to the first activation signal of the sequence of activation signals, wherein the single first electrode is deployed from a first firing tube of a magazine of the conducted electrical weapon;

receiving, via the user control interface of the conducted electrical weapon, a second activation signal of the sequence of activation signals;

deploying a second electrode of the plurality of wire-tethered electrodes toward the remote location in response to a second activation signal of the sequence of activation signals; and

generating, via a signal generator of the conducted electrical weapon, a first voltage of a stimulus signal and a second voltage of the stimulus signal;

coupling, via a selector circuit of the conducted electrical weapon, the first voltage of the stimulus signal to the single first electrode; and

coupling, via the selector circuit of the conducted electrical weapon, the second voltage of the stimulus signal to the second electrode to provide the stimulus signal to the remote location.

12. The method of claim 11, wherein deploying the second electrode includes deploying a single second electrode.

13. The method of claim 12, wherein the single first electrode is deployed toward the remote location at a first angle of deployment relative to the remote location and the second electrode is deployed toward the remote location at a second angle of deployment relative to the remote location, and wherein the first angle of deployment is independent of the second angle of deployment.

14. The method of claim 13, wherein the single first electrode is deployed from the conducted electrical weapon at a first launch angle, wherein the second electrode is deployed

from the conducted electrical weapon at a second launch angle, and wherein the first launch angle is equal to the second launch angle.

15. The method of claim 14, wherein the single first electrode is deployed from the conducted electrical weapon at a first location on the conducted electrical weapon, and wherein the second electrode is deployed from the conducted electrical weapon at a second location on the conducted electrical weapon, and wherein a spacing between the first location and the second location is less than 1.0 inches.

16. The method of claim 15, wherein deploying the second electrode comprises deploying the second electrode at least six inches away from the single first electrode at the remote location.

17. The method of claim 15, wherein the second voltage of the stimulus signal is provided to the remote location after the single first electrode is deployed and the second electrode is deployed.

18. The method of claim 15, wherein the first voltage of the stimulus signal is coupled to the single first electrode after both the single first electrode and the single second electrode are deployed.

19. The method of claim 11, wherein deploying the second electrode comprises deploying at least two second electrodes of the plurality of wire-tethered electrodes.

20. The method of claim 11, further comprising decoupling, via at least one of the signal generator or the selector circuit, the single first electrode from the first voltage during a first period of time between a first time at which the single first electrode is deployed and a second time at which the second electrode is deployed.