

6. The apparatus of claim 4, wherein said alternating density generator comprises a sequential resonance circuit including two interconnected inductors having inductance L1 and L2, and an equivalent inductance of said resonance circuit being provided by the resultant inductivity L1+L2. 5

7. The apparatus of claim 4, wherein said alternating density generator transforms the electrical energy from said generator into a displacement current.

8. The apparatus of claim 4, wherein said alternating density generator transforms the electrical energy from said generator into a longitudinal wave of an electrical field. 10

9. The apparatus of claim 6, wherein the electrical device operates on alternating current, and wherein said apparatus further comprises an accommodating device connected to said conductor of said transmission line, said accommodating device including a transformer circuit including at least first and second interconnected inductors, each of said inductors having first and second ends, said first and second ends of said first inductor being connected to the receiving device, said first end of said second inductor connecting said accommodating device to the output of said conductor of said transmission line, and said second end of said second inductor being connected to said conductive body. 20

10. The apparatus of claim 6, wherein the electrical device operates on direct current, said apparatus further comprising first and second accommodating devices selectively connectable to said conductor of said transmission line, wherein: 25

said first accommodating device comprises a diode circuit including first and second diodes, said first diode having an anode and said second diode having a cathode which are commonly connected to the output of said conductor of said transmission line, said first diode having a cathode and said second diode having an anode defining outlets connected to the receiving device; and 30

said second accommodating device comprises a transformer circuit including first and second interconnected inductors and a rectifying circuit connecting one of said first and second inductors to the receiving device. 40

11. The apparatus of claim 6, wherein said first and second interconnected inductors comprise first and second inductively connected coils arranged in accordance with the scheme of a consecutive resonance contour, said second coil comprising a plurality of turns of isolated wire wound around a dielectric body. 45

12. The apparatus of claim 10, wherein said diode circuit of said first accommodating device further includes a capacitor connected in parallel with said cathode of said first diode and said anode of said second diode. 50

13. The apparatus of claim 11, wherein said first and second inductors have a ferromagnetic core.

14. Apparatus for supplying power to at least one electrical device, comprising:

an initial source of electrical energy;

an alternating density generator for transforming the electrical energy from said source into the oscillation energy of a field of free electrical charges, the density of which varies with time;

a single-wire transmission line, said transmission line including a conductor connecting the output of said alternating density generator to a receiving device; and 60

a conductive body electrically connected to the receiving device, said conductive body having a charge storage capacity of a magnitude adequate to ensure normal functioning of the receiving device.

15. The apparatus of claim 14, further comprising a blocking capacitor interposed between said transmission line and the receiving device.

16. The apparatus of claim 14, wherein said alternating density generator comprises a sequential resonance circuit including two interconnected inductors having inductance L1 and L2, and an equivalent inductance of said resonance circuit being provided by the resultant inductivity L1+L2.

17. The apparatus of claim 16, wherein said alternating density generator transforms the electrical energy from said generator into a displacement current.

18. The apparatus of claim 16, wherein said alternating density generator transforms the electrical energy from said generator into a longitudinal wave of an electrical field.

19. The apparatus of claim 16, wherein the electrical device operates on alternating current, and wherein said apparatus further comprises an accommodating device connected to said conductor of said transmission line, said accommodating device including a transformer circuit including at least first and second interconnected inductors, each of said inductors having first and second ends, said first and second ends of said first inductor being connected to the receiving device, said first end of said second inductor connecting said accommodating device to the output of said conductor of said transmission line, and said second end of said second inductor being connected to said conductive body. 35

20. The apparatus of claim 16, wherein the electrical device operates on direct current, said apparatus further comprising first and second accommodating devices selectively connectable to said conductor of said transmission line, wherein: 40

said first accommodating device comprises a diode circuit including first and second diodes, said first diode having an anode and said second diode having a cathode which are commonly connected to the output of said conductor of said transmission line, said first diode having a cathode and said second diode having an anode defining outlets connected to the receiving device; and 45

said second accommodating device comprises a transformer circuit including first and second interconnected inductors and a rectifying circuit connecting one of said first and second inductors to the receiving device.

21. The apparatus of claim 20, wherein said diode circuit of said first accommodating device further includes a capacitor connected in parallel with said cathode of said first diode and said anode of said second diode. 50

22. The apparatus of claim 16, wherein said first and second interconnected inductors comprise first and second inductively connected coils arranged in accordance with the scheme of a consecutive resonance contour, said second coil comprising a plurality of turns of isolated wire wound around a dielectric body. 55

23. The apparatus of claim 22, wherein said first and second inductors have a ferromagnetic core. 60