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Note.—Throughout this *Gazette* the names in *Italics* within parentheses are those of Communicators of Inventions.

Complete Specifications.

Patent Office, Perth,
13th February, 1903.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the complete Specifications annexed thereto, have been accepted, and are now open to public inspection at this Office.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the date of this *Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 4180.—BICKFORD & HUFFMAN COMPANY, of Macedon, State of New York, U.S.A. (assignee of JAMES SAMUEL HEATH and ERNEST BASEMAN), "*Furrow Opener for Seeding Machines.*"—Dated 13th December, 1902.

Claims:—

1. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit located in proximity thereto and projecting beyond the cutting line of the disk, the whole forming a furrow opener.
2. In a seeding machine, the combination of an angularly inclined rotatable disk suitably journaled in the frame with a conduit also suitably connected to the frame in proximity to the disk and projecting beyond the cutting line of the disk, the lower edge of the conduit being curved to raise the soil, the whole constituting a furrow opener.
3. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit formed with a furrow opening device which projects beyond the cutting line of the disk, the whole constituting a furrow opener.
4. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit provided with an edge conforming to the shape of the disk and a lower flaring edge which projects beyond the cutting line of the disk, the whole constituting a furrow opener.
5. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit which projects beyond the cutting line of the disk, the whole constituting a furrow opener, together with a projection in the rear inner surface of the conduit to deflect grain or seed passing therethrough.
6. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit provided with a lower flaring edge which co-acts with the disk in the opening of a furrow for the reception of grain or seed from the conduit.
7. In a seeding machine, the combination of an angularly inclined rotatable disk and a conduit provided with a forward edge conforming to the shape of the disk, and a lower flaring edge which co-acts with the disk in the opening of a furrow for the reception of grain or seed from the conduit.

Specification, 11s. 6d. Drawings on application.

Application No. 4188.—REGINALD AUBREY FESSENDEN, of Manteo, County of Dare, State of North Carolina, United States of America, "*Improvements in Signalling by Electro-magnetic Waves.*"—Dated 18th December, 1902.

Claims:—

1. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves and an artificial

ground connected to the lower end of the sending-conductor and to ground and extending outwardly from the sending-conductor, substantially as set forth.

2. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves and an artificial ground connected to the lower end of the sending-conductor and to ground and extending outwardly from the sending-conductor a distance equal to a quarter-wave length in air of the electro-magnetic wave length used, substantially as set forth.

3. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves and an artificial ground consisting of a series of wires or strips connected to the lower end of the sending-conductor and to ground and radiating from the lower end of the conductor and connected at suitable intervals by transverse wires or strips substantially as set forth.

4. In a system for transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves and an artificial ground connected to the lower end of the sending-conductor, and to ground and extending outwardly from the sending-conductor, a distance equal to a quarter-wave length in air of the electro-magnetic wave length used and in the direction in which it is desired to send the waves substantially as set forth.

5. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves, and an artificial ground connected to the lower end of the sending-conductor and connected at its outer end to the ground, substantially as set forth.

6. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves supported by a metallic conductor of low resistance to currents of the frequencies used, substantially as set forth.

7. In a system for the transmission of energy by electro-magnetic waves, a sending conductor for radiating such waves supported by a metallic conductor, a shield for said conductor having low resistance to currents of the frequencies used, substantially as set forth.

8. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves supported by a metallic conductor having a natural period of oscillation different from that of the frequencies of the electro-magnetic waves used, substantially as set forth.

9. A conductor for radiating electro-magnetic waves, consisting of a conductor immersed in a liquid medium having an electric constant on which the wave length depends of a value greater than that of air, substantially as set forth.

10. A conductor for radiating electro-magnetic waves, consisting of a conductor immersed in water, substantially as set forth.

11. A conductor for radiating electro-magnetic waves, consisting of a metal vessel, containing a medium of the character described, a conductor immersed in said medium and a generator, substantially as set forth.

12. A conductor for radiating electro-magnetic waves, consisting of a metal vessel containing a medium of the character described, a tubular conductor immersed in the medium, spacing terminals arranged in the chamber, substantially as set forth.

13. In a system for the transmission of energy by electro-magnetic waves, a sending-conductor for radiating such waves, an artificial ground connected to the lower end of the sending conductor, and to ground and extending outwardly from the sending-conductor, and a second grounded conducting strip, leading around the station from that facing a source of electrical disturbances to the opposite side, substantially as set forth.

14. In a system for transmission of energy by electro-magnetic waves, a support for a conductor encircled by one or more turns or coils of magnetic material substantially as set forth.

15. In a system for transmission of energy by electro-magnetic waves, a support for a conductor encircled by one or more turns or coils by iron wire substantially as set forth.

16. In a system for transmission of energy by electro-magnetic waves, a conductor in combination with a support therefor, said support having a coating of non-magnetic material, substantially as set forth.

17. In a system for transmission of energy by electro-magnetic waves, a conductor in combination with a support therefor, said support having a coating of non-magnetic material and encircled by one or more turns of magnetic material, substantially as set forth.

Specification, 14s. Drawings on application.



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Applications for the Grants of Letters Patent