receive and the apparatus 66. The function of my undulatory receiver may be exercised by one of the radioconductors of the Branly's system, with one of the electrodes movible to be controlled. The reflected electric impulses of short length of waves, are not an essential part of this system. They constitute the base of another system by self devised and denominated: "Petit Wireless Telegraph". However I use here this reflected electric impulses, because in certain cases, they improve the effects. The same I wish to say relatively to the addition of certain kind of lights or rays in connection with the reflected waves mentioned above. Page 2, line 1, after the words: stand A, write: (Fig. 2). Line 3, after the letter: F, write: (Fig. 1). Same line, after the words: frame 1, write: (Fig. 2). Line 7, after the word: cubical, write: or cylindric. Line 11, cancel the word: concave, and write: parabolic. Line 19, after the word: a, write: an intermedial, and cancel the same word: a. Line 22, cancel the word: a, and write: an insulated. Line 23, cancel the word: two, and write: a. Line 24, after the number: 18, write: one of its extremities is contracted for supporting inside the selenium cell 16. Same line, after the word: ends, write: of this crown. Line 26, after the word: barrel, write: The members 10 and C (Fig. 2), are fully described in the specification of my own wireless telephone. Line 27, after the word: hermetically, write: hollow, that is, vacuum. Line 33, after the word: application, write: The selenium cell here is also represented, because it may be used for telegraphing by flickerings of light, in connection with the lamp 20, which has an action on the selenium plate of the selenium cell 16. Page 3, line 1, cancel the letter S. of the word: wires, cancel the number: 22 and also the word are, and write: is. At line 2, cancel the words: connected with etc.. until the word: described, and put in lieu:

Page 3, line 2, cancel the words: connected with etc until the word described and put in lieu: connects with 44 for sending and with 46 for receiving. At the word: wires, cancel also the number 22. At the same line, cancel the words:

with 44, to sending, and with 46 only, for receiving. The switchs 36 and 38 are as one shows in sending. In receiving the switch is closed, and also 36 connects with 34 when one desires to send only with the coil 31, and then must close also instances. The wire 38 has no connection with 46, and the wire lower 25, connects only with this same wire 25. Connected with a Morse register, there is into the iron box 61, another complete receiver of the electric impulses, provided with a relay, a decohuer, with batteries and resistances. This receiver works independently from all devices of the other receiver at E, and when the receiver at 61 works, the other at E remains entirely out of action. The switch 32 some times may be substituted for a key like 41, that is, when the secondary wires of the coils 43 and 31 are copulated to augment the potential on the extremities of the secondary wires of the coil 31. Then the wire of 44, out of action, connects only with the antenna, through 23. 24, connects with 23, 22 with 25; 22 at the other extremity, connects only with 37; 37 with 38, and 38 with 45 through ground, and the interruptions are made with the substituted key 32 ~~manipulator~~ for telegraphing, not only by electric waves, but also by flickerings of light. In the first case, the switch 36 is used as is shown; in the second case, the switch 36, and the bowls 34 like 44 remain out of action. This two coils may also exercise the office of the the two bobines commonly used at the wires 46 and 25, for receiving the electric impulses. Then the wire of 44 now out of action connects only with the wire 46, and 45 with the ground. 23 remains

out of action like 34, 36, 35, 32 and 38. 19 connects with 24; 22 connects only with 25 of the coil 31. The electric impulses affecting the antenna pass 24, travers the secondary circuit of 31, ascend through 25, descend through 22 and along the wire 25 arrive to the coherer. The electric impulses affecting the ground plate arrive to the coherer passing through secondary of 43. For receiving by flickerings of light I use the same arrangement for receiving the articulate speech, described in the specification of my own wireless telephone. I may use also the factures for receiving explained in the other co-pending application on my phonetic interrupter. Line 14, at same page 3, after the number 38, write: which must be closed when one receives by the common way. Then, when one receives with the arrangement at E, 22 does not connects with the antenna; but when one receives with the devices at 61, 22 may connect also with the antenna as is shown, because, the other receiver of the electric impulses in connection with the Morses register, is provided with a relay, as is said above. Line 20, cancel the words: collector crowns, and write: crown of wires same line, after the number: 18, write: This

crown of wires may vary indefinitly in form, and is used inside the member C, when one works with waves of short length, and only in this case, if one desires, may be used the lights from 18 or from C. Line 23, cancel the word or numbers: 54, 53, and write: of 53 and 54. Line 27, after the number 50, write: 50, as is said above, works here also as an undulatory microphonic receiver, and when it exercises this office, must strongly press the contact 58 against 56 to get it motionless and to connect the member 57 with 58. Line 30, cancel the number 46 and write: 58, through primary of the induction coil 64 and through 66.

Page 4, line 2, cancel the words: and provided etc., until the word: apparatus, at line 3. Same line, cancel the word: in, and write: at. Page 4, line 22, cancel the word: The, and write: When one makes use of the electric waves of short length the. Page 5, line 5, cancel the words: scattered in etc. until the words: but are, and after the word: the, write metallic. Line 8, cancel the words: These cathodic etc. until the word: employed, at line 11. Line 14, after the word: the, write: reflected electric waves of short length in sending and receiving, and at the same line, cancel the words: Hertzian waves. Same page 5, line 15, before the word: When, add this other words:

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also regulated by its secondary circuits to augment the potential on the extremities of the secondary wires of the coil 56. Then the wire of 69, out of action, connects only with 44 through 69'; 44 with 38; 39 with 43; 64 with 61; 61 with 43 by 39; 64 with 106 through ground, and the switch 60 is substituted for a key like 66. This arrangement serves specially for sending by reflected waves of short length, as the other special arrangement for receiving, through the secondary circuits of the coils 56 and 68, serves for receiving specially the reflected electric impulsus described above. (2) This same arrangement used for sending, I may use for sending by flickerings of light. Then 62 and 57 are out of action. 62 connects with 63 when 64 is out of action. Page 7, line 32, after the word: waves, write: or vibrations. Page 8, line 6, cancel the word: withrough, and write: through. Line 24, cancel the words: a violet, etc., until the word: thereof, at line 26. Page 3, line 8, after the word: thereto, add: and may be able to put in resonance the devices of the arc-lamps, which works like an Hughes microphone. Same line, after the word: but, write: also that —

(2) See that I said about this on the corrections of the wireless telegraphs.

Yours truly,

New York, Nov. 29, 1903

Roberto Landell de Moura

The member.

When I use the intensity of the lamp arc is augmented for purpose to arrive at longer distance, it is necessary to adjusted the member 2 & and D with its antenna as is shown on the fig. 2, at a suitable distance in front the mouth of the barrel C. on account ~~to~~ of the ~~great~~ intensity of ~~the~~ heat from the arc-lamp. Then the member 2 and D are ~~suppor~~ in front at in the ~~suitable~~ position by means of a suitable supports; the connection are the same, only most augment the wires for purpose ~~to~~ connecting height the pieces of D with with the arrangement for sending and receiving ~~sonorous~~ and electrical waves, or vibrations: —

Now I wish ask you the special favor to make the corrections of my two application that is in wireless telephone and telegraph, according this note and the ~~correc~~ emendent drawings. You can change the redaction, but must retain the sense of all that which I will to ~~express~~ say with this my poor english language. My note are made with much scrupulous care, as the emendaments of the drawing, no change in the ends of this two application ~~neither~~ are introduced by this corrections made in the specification and in the drawing, unless of it the Patent Office would accept, according to the statutes of this same House, ~~which~~ at least of ~~fold~~ you can read - Ing.