

[0067] In embodiments, a high dose of a resveratrol may refer to a quantity having a sirtuin activating effect equal to or greater than the sirtuin activating effect of at least about 20, 25, 30, 35, 40, 50, 60, 75, 100, 150 mg/kg, or more, of resveratrol.

[0068] In embodiments, a high dose may be administered to an animal once, or multiple times (e.g., daily).

[0069] In embodiments, a high dose may be administered to an animal until a desired therapeutic effect is achieved. For example, a high dose may be administered daily for 1 day, 1 week, 2 weeks, 1 month, 2 months, 3 months, 6 months, 1 year, or more depending on the disease or disorder being treated.

[0070] In embodiments, a high dose of a sirtuin activator, such as resveratrol, may be administered daily in a single dosage or may be divided into multiple dosages (e.g., dosages taken twice or three times per day).

[0071] In embodiments, a high dose of a sirtuin activator, such as resveratrol, may be administered in a sustained release formulation.

[0072] In embodiments, a high dose of a sirtuin activator, such as resveratrol, may be taken alone or in combination with other compounds.

[0073] In embodiments, a mixture of a high dose of two or more sirtuin activating compounds, including resveratrol, may be administered to an animal.

[0074] In embodiments, a high dose of a sirtuin activator, such as resveratrol, may be administered in response to a special therapeutic need in an animal.

[0075] In embodiments, a high dose of a sirtuin activator, such as resveratrol, may be administered with other compounds, including, but not limited to butein, Fisetin, piceatannol, or quercetin.

[0076] In embodiments, a high dose of one or more sirtuin activating compounds, including resveratrol, may be administered with one or more therapeutic agents for the treatment or prevention of various animal diseases

[0077] In embodiments, combination therapies comprising a high dose of a sirtuin activating compound, such as resveratrol, may refer to (i) pharmaceutical compositions that comprise a high dose of one or more sirtuin activating compounds in combination with one or more therapeutic agents; and (ii) co-administration of a high dose of one or more sirtuin activating compounds with one or more therapeutic agents

wherein the sirtuin activating compound and therapeutic agent have not been formulated in the same compositions. When using separate formulations, the high dose of the sirtuin activating compound may be administered at the same, intermittent, staggered, prior to, subsequent to, or combinations thereof, with the administration of another therapeutic agent.

[0078] In embodiments, the high dose of a sirtuin activating compound, such as resveratrol, may be administered in a sustained release formulation (e.g., by embedding or encapsulating the sirtuin activator into nanoparticles for delivery over a period of at least 12 hours). In embodiments where resveratrol is administered to an animal in a sustained release formulation, a high dose of the resveratrol may be administered for sustained delivery over a period of for example, at least about 12, 15, 18, 24, or 36 hours, or longer.

[0079] In embodiments, the resveratrol may be administered for a sustained delivery over a period of one or more days.

[0080] In embodiments, resveratrol may be administered for a sustained delivery over a period of one or more weeks.

[0081] In embodiments, the sirtuin activating compound, such as resveratrol, may be administered in any functional food (including liquids). In embodiments, an animal food or liquid may contain from about 0.1% to about 99%, or from about 0.1% to about 10% of a sirtuin activator by weight. In embodiments, a high dose as described herein of resveratrol may be administered in a single serving of an animal food or liquid.

[0082] In embodiments, a single dosage form may be provided, for example a 10 fluid ounce serving of a liquid such as water, flavored water, or the like that contains a quantity of resveratrol equal to or greater than 25 mg.

[0083] In embodiments, a single dosage form may be provided that contains a quantity of resveratrol of about 10, 15, 20, 25, 50, 60, 75, 80, 100, 150, 200, or more, mg resveratrol per 8 fluid ounces.

[0084] In embodiments, a single dosage form may be provided (e.g., a serving of animal food such as dried animal meal) that contains a total quantity of 100 mg resveratrol.

[0085] In embodiments, a single dosage form may be provided that contains a quantity of resveratrol of about 10, 15, 20, 25, 50, 60, 75, 80, 100, 150, 200, or more, mg resveratrol per 100 to 500 kcal.

[0086] In embodiments, the resveratrol enriched edible/medicinal animal product may be one selected from the group of animal feeds, pet feed, commercial animal feed, dry feed, canned feed, water additive, dog biscuits, gourmet pet feeds, animal strips (e.g., rawhide-type), beef jerky, pepperoni, edible pet toys, bones, animal bones covered/injected with resveratrol, nylon bones with resveratrol, catnip, veterinary medicines, eye drops, ear drops, tongue drops, nasal spray, pill, tablet, capsule, heartworm medication, insulin, tapeworm medicine, vitamins, minerals, dietary supplements, vaccines (e.g., distemper, leukemia, rabies, toxoplasmosis), anti-arthritis/pain meds, carprofen, deracoxib, glucosamine, firocoxib, aspirin, flea/tick medicine (e.g., collar, skin drops, powder), grooming products (e.g., shampoos and soaps), skin care products, intravenous drip, time release patch, topical patch, skin drops, subcutaneous slow-release capsule, and the like.

[0087] Animal types 122 that may benefit from resveratrol-enriched animal products 120 include commercial animals 190, such as, livestock, cattle, poultry, fowl, cows, horses, pigs, bison, buffalo, oxen, sheep, goats, chicken, ducks, pheasant, partridge, emus, llama, ostrich, deer, mink, crocodile, alligator; domestic animals 192, such as, dog, cat, hamster, fish, gerbil; and exotic animals 194, birds, rodents, chinchilla, degu, prairie dog, sugar glider, rat, mice, skunk, hedgehog, squirrel, wallaby, iguana, lizard, kimono dragon, ferret, rabbit, hare, guinea pig, possum, fox, pot belly pig, tropical fish, shark, snake, turtle, other reptiles, spiders, and the like.

[0088] While the invention has been disclosed in connection with certain preferred embodiments, other embodiments will be recognized by those of ordinary skill in the art, and all such variations, modifications, and substitutions are intended to fall within the scope of this disclosure. Thus, the invention is to be understood with reference to the following claims, which are to be interpreted in the broadest sense allowable by law.

CLAIMS

What is claimed is:

1. A method of producing a resveratrol enriched animal product comprising:
combining resveratrol with a bioavailability promoter to produce a bioavailable resveratrol;
combining the bioavailable resveratrol with a combination compound to produce a bioavailable resveratrol enriched compound; and
combining the bioavailable resveratrol enriched compound with an animal delivery method to produce a resveratrol enriched product for use by an animal.
2. The method of claim 1, wherein the resveratrol is organic resveratrol.
3. The method of claim 2, wherein the organic resveratrol is derived from a grape.
4. The method of claim 2, wherein the organic resveratrol is derived from a berry.
5. The method of claim 4, wherein the berry is a blueberry.
6. The method of claim 4, wherein the berry is a cranberry.
7. The method of claim 4, wherein the berry is a bilberry.
8. The method of claim 4, wherein the berry is a mulberry.
9. The method of claim 2, wherein the organic resveratrol is derived from a pine.
10. The method of claim 2, wherein the organic resveratrol is derived from a Japanese Knotweed.

11. The method of claim 10, wherein the Japanese Knotweed is a hu zhang.
12. The method of claim 2, wherein the organic resveratrol is derived from a Giant Knotweed.
13. The method of claim 2, wherein the organic resveratrol is derived from a green tea.
14. The method of claim 2, wherein the organic resveratrol is derived from a black tea.
15. The method of claim 2, wherein the organic resveratrol is derived from a Polygonum cuspidatum.
16. The method of claim 1, wherein the resveratrol is synthetic resveratrol.
17. The method of claim 1, wherein the resveratrol is combined with an artificial production stimulus.
18. The method of claim 17, wherein the artificial production stimulus is Botrytis cinerea.
19. The method of claim 17, wherein the artificial production stimulus is aluminum chloride.
20. The method of claim 17, wherein the artificial production stimulus is aluminum sulfate.
21. The method of claim 17, wherein the artificial production stimulus is ultraviolet-B.
22. The method of claim 17, wherein the artificial production stimulus is ultraviolet-C.

23. The method of claim 17, wherein the artificial production stimulus is stilbene synthase.
24. The method of claim 1, wherein the resveratrol is a genetically engineered resveratrol.
25. The method of claim 1, wherein the resveratrol is a plurality of organic resveratrol types.
26. The method of claim 1, wherein the resveratrol is a plurality of synthetic resveratrol types.
27. The method of claim 1, wherein the resveratrol is a combination of an organic and synthetic resveratrol.
28. The method of claim 1, wherein the resveratrol is a combination of an organic and a genetically engineered resveratrol.
29. The method of claim 1, wherein the resveratrol is a combination of a synthetic and a genetically engineered resveratrol.
30. The method of claim 1, wherein the resveratrol is a combination of an organic, a synthetic, and a genetically engineered resveratrol.
31. The method of claim 1, wherein the resveratrol is resveratrol in the form of micronized particles.
32. The method of claim 1, wherein the bioavailability promoter is a bioadhesive polymer.

33. The method of claim 32, wherein the bioadhesive polymer is poly(fumaric-co-sebacic) anhydride p(FA:SA).
34. The method of claim 32, wherein the bioadhesive polymer is low molecular weight anhydride oligomers.
35. The method of claim 32, wherein the bioadhesive polymer is polycaprolactone.
36. The method of claim 1, wherein the bioavailability promoter is a microparticle.
37. The method of claim 1, wherein the bioavailability promoter is a nanoparticle.
38. The method of claim 1, wherein the bioavailability promoter is a cationic polymer.
39. The method of claim 38, wherein the cationic polymer is chitosan.
40. The method of claim 38, wherein the cationic polymer is at least one selected from the group consisting of albumin, gelatin, starch, DEAE-Cellulose, cationic guar and DEAE-Dextran. DEAE-Dextran and cationic guar have tertiary amino groups. Cationic guar's INCI name is Guar hydroxypropyltrimonium chloride and DEAE-Dextran is Diethylaminoethyl-Dextran.
41. The method of claim 1, wherein the bioavailability promoter is a polymeric microsphere.
42. The method of claim 1, wherein the bioavailability promoter is microencapsulation.
43. The method of claim 1, wherein the bioavailability promoter is nanoencapsulation.
44. The method of claim 32, wherein the bioadhesive polymer is poly(lactic-co-glycolic acid) (PLGA).

45. The method of claim 32, wherein the bioadhesive polymer is PLL-g-PEG.
46. The method of claim 1, wherein the bioavailability promoter is at least one selected from the group consisting of polyanhydrides, and polymers and copolymers of acrylic acid, methacrylic acid, and their lower alkyl esters, for example polyacrylic acid, poly(methyl methacrylates), poly(ethyl methacrylates), poly(butylmethacrylate), poly(isobutyl methacrylate), poly(hexylmethacrylate), poly(isodecyl methacrylate), poly(lauryl methacrylate), poly(phenyl methacrylate), poly(methyl acrylate), poly(isopropyl acrylate), poly(isobutyl acrylate), and poly(octadecyl acrylate).
47. The method of claim 32, wherein the bioadhesive polymer is non-biodegradable.
48. The method of claim 32, wherein the bioadhesive polymer is biodegradable.
49. The method of claim 32, wherein the bioadhesive polymer is non-erodible.
50. The method of claim 32, wherein the bioadhesive polymer is a synthetic polymer.
51. The method of claim 1, wherein the bioavailability promoter is a structural modification.
52. The method of claim 51, wherein the structural modification is a nanotechnology.
53. The method of claim 52, wherein the nanotechnology is a plasmid- loaded nanosphere.
54. The method of claim 51, wherein the structural modification is a microparticle.
55. The method of claim 51, wherein the structural modification is a structure-based digestive delay.

- 56. The method of claim 1, wherein the bioavailability promoter is a plurality of bioavailability promoters.
- 57. The method of claim 1, wherein the bioavailable resveratrol is a biologically engineered resveratrol.
- 58. The method of claim 1, wherein the combination compound is a vitamin.
- 59. The method of claim 1, wherein the combination compound is a mineral.
- 60. The method of claim 1, wherein the combination compound is an antioxidant.
- 61. The method of claim 60, wherein the antioxidant is an organic antioxidant.
- 62. The method of claim 60, wherein the antioxidant is a synthetic antioxidant.
- 63. The method of claim 1, wherein the combination compound is a polyphenol.
- 64. The method of claim 1, wherein the combination compound is an anti-inflammatory.
- 65. The method of claim 1, wherein the combination compound is a veterinary drug.
- 66. The method of claim 1, wherein the animal delivery method is a food stuff.
- 67. The method of claim 1, wherein the animal delivery method is a edible toy.
- 68. The method of claim 1, wherein the animal delivery method is a semi-edible toy.
- 69. The method of claim 1, wherein the animal delivery method is a topical application.

70. The method of claim 1, wherein the animal delivery method is an injection.
71. The method of claim 1, wherein the animal delivery method is a subcutaneous delivery.
72. The method of claim 1, wherein the resveratrol enriched product for use by an animal is one selected from the group consisting of animal feeds, pet feed, commercial animal feed, dry feed, canned feed, water additive, dog biscuits, gourmet pet feeds, animal strips (e.g., rawhide-type), beef jerky, pepperoni, edible pet toys, bones, animal bones covered/injected with resveratrol, nylon bones with resveratrol, catnip, veterinary medicines, eye drops, ear drops, tongue drops, nasal spray, pill, tablet, capsule, heartworm medication, insulin, tapeworm medicine, vitamins, minerals, dietary supplements, vaccines (e.g., distemper, leukemia, rabies, toxoplasmosis), anti-arthritis/pain meds, carprofen, deracoxib, glucosamine, firocoxib, aspirin, flea/tick medicine (e.g., collar, skin drops, powder), grooming products (e.g., shampoos and soaps), skin care products, intravenous drip, time release patch, topical patch, skin drops, subcutaneous slow-release capsule.
73. The method of claim 1, where in the resveratrol enriched product includes a high dose resveratrol.
74. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 18 mg/kg resveratrol.
75. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 25 mg/kg resveratrol.
76. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 50 mg/kg resveratrol.

77. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 100 mg/kg resveratrol.
78. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 250 mg/kg resveratrol.
79. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 500 mg/kg resveratrol.
80. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 750 mg/kg resveratrol.
81. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 1 g/kg resveratrol.
82. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 2 g/kg resveratrol.
83. The method of claim 73, wherein the high dose resveratrol is equal to the sirtuin activating effect of 5 g/kg resveratrol.
84. The method of claim 73, wherein the high dose of resveratrol is a sustained release formulation.
85. The method of claim 1, wherein the animal is one selected from the group consisting of commercial animals, such as, livestock, cattle, poultry, fowl, cows, horses, pigs, bison, buffalo, oxen, sheep, goats, chicken, ducks, pheasant, partridge, emus, llama, ostrich, deer, mink, crocodile, alligator; domestic animals, such as, dog, cat, hamster, fish, gerbil; and exotic animals, birds, rodents, chinchilla, degu, prairie dog, sugar glider, rat, mice, skunk, hedgehog, squirrel, wallaby, iguana, lizard, kimono dragon, ferret, rabbit, hare,

guinea pig, possum, fox, pot belly pig, tropical fish, shark, snake, turtle, other reptiles, spiders.

86. A system of producing a resveratrol enriched animal product comprising:
a first combination facility adapted to combine resveratrol with a bioavailability promoter to produce a bioavailable resveratrol;
a second combination facility adapted to combine the bioavailable resveratrol with a combination compound to produce a bioavailable resveratrol enriched compound; and
a third combination facility adapted to combine the bioavailable resveratrol enriched compound with an animal delivery system to produce a resveratrol enriched product for use by an animal.
87. The system of claim 86, wherein the resveratrol is organic resveratrol.
88. The system of claim 87, wherein the organic resveratrol is derived from a grape.
89. The system of claim 87, wherein the organic resveratrol is derived from a berry.
90. The system of claim 89, wherein the berry is a blueberry.
91. The system of claim 89, wherein the berry is a cranberry.
92. The system of claim 89, wherein the berry is a bilberry.
93. The system of claim 89, wherein the berry is a mulberry.
94. The system of claim 87, wherein the organic resveratrol is derived from a pine.
95. The system of claim 87, wherein the organic resveratrol is derived from a Japanese Knotweed.

96. The system of claim 95, wherein the Japanese Knotweed is a hu zhang.
97. The system of claim 87, wherein the organic resveratrol is derived from a Giant Knotweed.
98. The system of claim 87, wherein the organic resveratrol is derived from a green tea.
99. The system of claim 87, wherein the organic resveratrol is derived from a black tea.
100. The system of claim 87, wherein the organic resveratrol is derived from a Polygonum cuspidatum.
101. The system of claim 86, wherein the resveratrol is synthetic resveratrol.
102. The system of claim 86, wherein the resveratrol is combined with an artificial production stimulus.
103. The system of claim 102, wherein the artificial production stimulus is Botrytis cinerea.
104. The system of claim 102, wherein the artificial production stimulus is aluminum chloride.
105. The system of claim 102, wherein the artificial production stimulus is aluminum sulfate.
106. The system of claim 102, wherein the artificial production stimulus is ultraviolet-B.
107. The system of claim 102, wherein the artificial production stimulus is ultraviolet-C.

108. The system of claim 102, wherein the artificial production stimulus is stilbene synthase.

109. The system of claim 86, wherein the resveratrol is a genetically engineered resveratrol.

110. The system of claim 86, wherein the resveratrol is a plurality of organic resveratrol types.

111. The system of claim 86, wherein the resveratrol is a plurality of synthetic resveratrol types.

112. The system of claim 86, wherein the resveratrol is a combination of an organic and synthetic resveratrol.

113. The system of claim 86, wherein the resveratrol is a combination of an organic and a genetically engineered resveratrol.

114. The system of claim 86, wherein the resveratrol is a combination of a synthetic and a genetically engineered resveratrol.

115. The system of claim 86, wherein the resveratrol is a combination of an organic, a synthetic, and a genetically engineered resveratrol.

116. The system of claim 86, wherein the resveratrol is resveratrol in the form of micronized particles.

117. The system of claim 86, wherein the bioavailability promoter is a bioadhesive polymer.

118. The system of claim 117, wherein the bioadhesive polymer is poly(fumaric-co-sebacic) anhydride p(FA:SA).
119. The system of claim 117, wherein the bioadhesive polymer is low molecular weight anhydride oligomers.
120. The system of claim 117, wherein the bioadhesive polymer is polycaprolactone.
121. The system of claim 86, wherein the bioavailability promoter is a microparticle.
122. The system of claim 86, wherein the bioavailability promoter is a nanoparticle.
123. The system of claim 86, wherein the bioavailability promoter is a cationic polymer.
124. The system of claim 123, wherein the cationic polymer is chitosan.
125. The system of claim 123, wherein the cationic polymer is at least one selected from the group consisting of albumin, gelatin, starch, DEAE-Cellulose, cationic guar and DEAE-Dextran. DEAE-Dextran and cationic guar have tertiary amino groups. Cationic guar's INCI name is Guar hydroxypropyltrimonium chloride and DEAE-Dextran is Diethylaminoethyl-Dextran.
126. The system of claim 86, wherein the bioavailability promoter is a polymeric microsphere.
127. The system of claim 86, wherein the bioavailability promoter is microencapsulation.
128. The system of claim 86, wherein the bioavailability promoter is nanoencapsulation.

129. The system of claim 117, wherein the bioadhesive polymer is poly(lactic-co-glycolic acid) (PLGA).
130. The system of claim 117, wherein the bioadhesive polymer is PLL-g-PEG.
131. The system of claim 86, wherein the bioavailability promoter is at least one selected from the group consisting of polyanhydrides, and polymers and copolymers of acrylic acid, methacrylic acid, and their lower alkyl esters, for example polyacrylic acid, poly(methyl methacrylates), poly(ethyl methacrylates), poly(butylmethacrylate), poly(isobutyl methacrylate), poly(hexylmethacrylate), poly(isodecyl methacrylate), poly(lauryl methacrylate), poly(phenyl methacrylate), poly(methyl acrylate), poly(isopropyl acrylate), poly(isobutyl acrylate), and poly(octadecyl acrylate).
132. The system of claim 117, wherein the bioadhesive polymer is non-biodegradable.
133. The system of claim 117, wherein the bioadhesive polymer is biodegradable.
134. The system of claim 117, wherein the bioadhesive polymer is non-erodible.
135. The system of claim 117, wherein the bioadhesive polymer is a synthetic polymer.
136. The system of claim 86, wherein the bioavailability promoter is a structural modification.
137. The system of claim 136, wherein the structural modification is a nanotechnology.
138. The system of claim 137, wherein the nanotechnology is a plasmid- loaded nanosphere.
139. The system of claim 136, wherein the structural modification is a microparticle.

140. The system of claim 136, wherein the structural modification is a structure-based digestive delay.

141. The system of claim 86, wherein the bioavailability promoter is a plurality of bioavailability promoters.

142. The system of claim 86, wherein the bioavailable resveratrol is a biologically engineered resveratrol.

143. The system of claim 86, wherein the combination compound is a vitamin.

144. The system of claim 86, wherein the combination compound is a mineral.

145. The system of claim 86, wherein the combination compound is an antioxidant.

146. The system of claim 145, wherein the antioxidant is an organic antioxidant.

147. The system of claim 145, wherein the antioxidant is a synthetic antioxidant.

148. The system of claim 86, wherein the combination compound is a polyphenol.

149. The system of claim 86, wherein the combination compound is an anti-inflammatory.

150. The system of claim 86, wherein the combination compound is a veterinary drug.

151. The system of claim 86, wherein the animal delivery system is a food stuff.

152. The system of claim 86, wherein the animal delivery system is an edible toy.

153. The system of claim 86, wherein the animal delivery system is a semi-edible toy.

154. The system of claim 86, wherein the animal delivery system is a topical application.

155. The system of claim 86, wherein the animal delivery system is an injection.

156. The system of claim 86, wherein the animal delivery system is a subcutaneous delivery.

157. The system of claim 86, wherein the resveratrol enriched product for use by an animal is one selected from the group consisting of animal feeds, pet feed, commercial animal feed, dry feed, canned feed, water additive, dog biscuits, gourmet pet feeds, animal strips (e.g., rawhide-type), beef jerky, pepperoni, edible pet toys, bones, animal bones covered/injected with resveratrol, nylon bones with resveratrol, catnip, veterinary medicines, eye drops, ear drops, tongue drops, nasal spray, pill, tablet, capsule, heartworm medication, insulin, tapeworm medicine, vitamins, minerals, dietary supplements, vaccines (e.g., distemper, leukemia, rabies, toxoplasmosis), anti-arthritis/pain meds, carprofen, deracoxib, glucosamine, firocoxib, aspirin, flea/tick medicine (e.g., collar, skin drops, powder), grooming products (e.g., shampoos and soaps), skin care products, intravenous drip, time release patch, topical patch, skin drops, subcutaneous slow-release capsule.

158. The system of claim 86, where in the resveratrol enriched product includes a high dose resveratrol.

159. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 18 mg/kg resveratrol.

160. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 25 mg/kg resveratrol.

161. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 50 mg/kg resveratrol.

162. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 100 mg/kg resveratrol.

163. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 250 mg/kg resveratrol.

164. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 500 mg/kg resveratrol.

165. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 750 mg/kg resveratrol.

166. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 1 g/kg resveratrol.

167. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 2 g/kg resveratrol.

168. The system of claim 158, wherein the high dose resveratrol is equal to the sirtuin activating effect of 5 g/kg resveratrol.

169. The system of claim 158, wherein the high dose of resveratrol is a sustained release formulation.

170. The system of claim 86, wherein the animal is one selected from the group consisting of commercial animals, such as, livestock, cattle, poultry, fowl, cows, horses, pigs, bison, buffalo, oxen, sheep, goats, chicken, ducks, pheasant, partridge, emus, llama, ostrich, deer, mink, crocodile, alligator; domestic animals, such as, dog, cat, hamster,

fish, gerbil; and exotic animals, birds, rodents, chinchilla, degu, prairie dog, sugar glider, rat, mice, skunk, hedgehog, squirrel, wallaby, iguana, lizard, kimono dragon, ferret, rabbit, hare, guinea pig, possum, fox, pot belly pig, tropical fish, shark, snake, turtle, other reptiles, spiders.

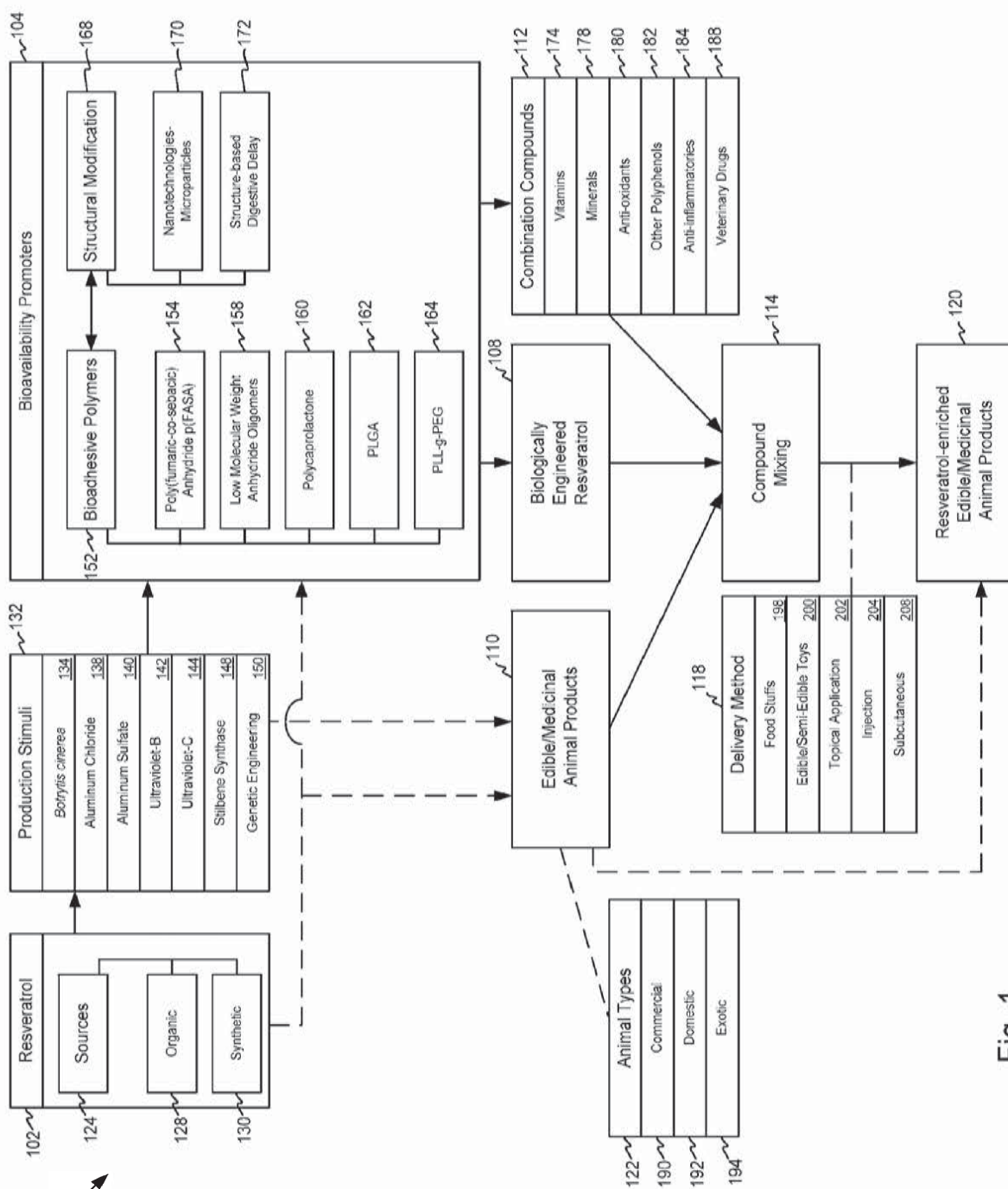


Fig. 1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

29344

OR

☐ Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:

29344

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

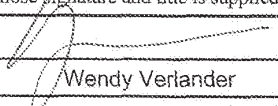
Assignee Name and Address:

Blackbird Tech LLC
One Boston Place, Suite 2600
Boston, Massachusetts 02108

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	8/3/2016
Name	Wendy Verlander	Telephone	617-307-7112
Title	President and CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: EDWARD H. NORTRUPApplication No./Patent No.: 14/971,658 Filed/Issue Date: December 16, 2015Titled: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATIONBLACKBIRD TECH LLC, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 042654, Frame 0077, or for which a copy thereof is attached.

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/David M. Mello/

Signature

David M. Mello

Printed or Typed Name

August 10, 2017

Date

43,799

Title or Registration Number

ASSIGNMENT

WHEREAS, Edward H. Nortrup (hereinafter referred to as "Assignor"), residing at 73 Robin Hood Road, Stoneham, MA 02180, is the sole and exclusive owner of the entire right, title and interest in, to and under in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 7,522,995, in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 7,904,240, in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 8,306,746, in "Real-time traffic condition measurement using GPS data" set forth in a Letters Patent of the United States, No. 8,380,429, in "Real-time traffic condition measurement and presentation of sponsored content" set forth in a Letters Patent of the United States, No. 8,457,871, in "Real-time traffic condition measurement using network transmission data" set forth in a Letters Patent of the United States, No. 8,478,512, in "Real-time traffic condition measurement and presentation of user-based route data" set forth in a Letters Patent of the United States, No. 8,489,314, in "Real-time traffic condition measurement" set forth in a Letters Patent of the United States, No. 8,548,719, in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 8,744,761, in "Real-time traffic condition measurement using network transmission data" set forth in a Letters Patent of the United States, No. 8,855,905, in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 9,014,972, in "Real-time traffic condition measurement using network transmission data" set forth in a Letters Patent of the United States, No. 9,086,295, in "Method and system for providing travel time information" set forth in a Letters Patent of the United States, No. 9,243,927, in "Real-time traffic condition measurement using network transmission data" set forth in a Letters Patent of the United States, No. 9,400,190 and in "Method and system for providing travel time information" set forth in a Letters Patent Application of the United States, Application No. 14/971,658 (together hereinafter referred to as "Letters Patents"); and

WHEREAS, Blackbird Tech LLC, doing business as Blackbird Technologies and located at One Boston Place, Suite 2600, Boston, MA 02108 (hereinafter referred to as "Assignee" and together with the Assignor are the "Parties"), wishes to acquire and Assignor wishes to assign all right, title and interest in and to said Letters Patents of the United States.

PATENT
REEL: 042654 FRAME: 0079

NOW, THEREFORE, in exchange for one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over to Assignee, its successors, assigns, and other legal representatives, the entire right, title and interest in and to said Letters Patents, including the subject matter of all claims of said Letters Patents and the right to sue for past infringement thereunder, for its own use and benefit and the use and benefit of its successors, assigns, or other legal representatives, to the full end of the term for which said Letters Patents may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, assigns, and other legal representatives, that, at the time of execution Assignor is the sole and lawful owner of the entire right, title and interest in and to said Letters Patents, and that the same is free and clear of any liens or encumbrances and that Assignor has the full right and lawful authority to make this assignment, and that it has not executed and will not execute any agreement or other instrument in conflict herewith.

AND for the same consideration, Assignor, its successors, assigns, and other legal representatives, will cooperate with Assignee's requests to sign all papers and documents, take all lawful oaths, testify in all legal proceedings, sign and deliver all papers that may be necessary or desirable to perfect title to said Letters Patents, and do all acts necessary or required to be done for the maintenance, enforcement and defense of said Letters Patents, whenever Assignee shall advise.

This Assignment constitutes the entire, full and complete agreement between the Parties concerning the subject matter hereof, and supersedes all prior agreements, negotiations, representations, and discussions written or oral, express or implied, between the Parties in relation thereto.

Assignor authorizes and requests the Commissioner of Patents and Trademarks to record Assignee as owner of said Letters Patents.

This Assignment may be executed in any number of counterparts and by the separate Parties on separate counterparts, each of which when executed and delivered shall

constitute an original, and all such counterparts together shall constitute but one and the same Assignment.

Assignor and Assignee hereby authorize the following individuals the power to correct errors in this Assignment, or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordation in the United States Patent and Trademark Office.

Wendy Verlander

IN WITNESS WHEREOF, the Assignor and Assignee have caused this Assignment to be executed by themselves or their officers duly authorized on their behalf on the date set forth below:

Date:

March 9, 2017

Assignor:

E H N
Edward H. Nortrup

State of:

Massachusetts

County of:

Middlesex

I hereby declare that I was personally present and did see Edward H. Nortrup, who is known to me to be the person named in the above Assignment, duly sign and execute the same.

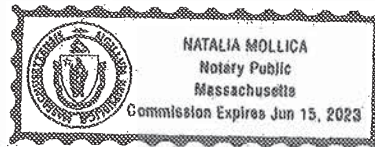
IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal at Concord on this 9th day of March, 2017

Notary Public:

[Signature]

My commission expires:

06/15/2023



Date: 3/9/2017

Assignee: [Signature]

Wendy Verlander

Blackbird Tech LLC dba Blackbird Technologies

State of: Massachusetts

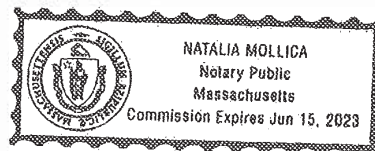
County of: Middlesex

I hereby declare that I was personally present and did see Wendy Verlander, who is known to me to be the person named in the above Assignment, duly sign and execute the same.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal at Concord on this 9th day of March, 2017.

Notary Public: [Signature]

My commission expires: 06/15/2023



Electronic Acknowledgement Receipt	
EFS ID:	30044510
Application Number:	14971658
International Application Number:	
Confirmation Number:	7270
Title of Invention:	METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION
First Named Inventor/Applicant Name:	Edward H. Nortrup
Customer Number:	87084
Filer:	David M. Mello./Kasia Muscarella
Filer Authorized By:	David M. Mello.
Attorney Docket Number:	IPHO-0001-U02-C01-C06-C01
Receipt Date:	10-AUG-2017
Filing Date:	16-DEC-2015
Time Stamp:	15:09:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	sb0021_fillAF.pdf	124534	no	1
			bac6b48a54175928b2a666579d42eccc3c805c7		
Warnings:					

Information:					
2	Application Data Sheet	007_SupplementalADS.pdf	1305611 e87584329b8ff99d4c28693f13d735af371d c6d4	no	7
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Power of Attorney	000_POAssigned.pdf	1604779 ff9c706d8c038d56df163905da050c16983b e3b4	no	1
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73	Statement_373cAF.pdf	555339 d3865ed1d4e8dfdb506d66105d2f96ed843 8a042	no	6
Warnings:					
Information:					
Total Files Size (in bytes):			3590263		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

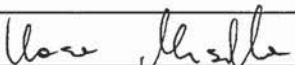
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	14/971,658
	Filing Date	December 16, 2015
	First Named Inventor	Edward Nortrup
	Art Unit	3661
	Examiner Name	Peter D. Nolan
	Attorney Docket Number	BT-005CON
Total Number of Pages in This Submission		

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☒ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): - Statement Under 37 CFR 3.73(c) - Supplemental Application Data Sheet
Remarks In connection with this matter, please charge any otherwise unpaid fees which may be due or credit any overpayment to Deposit Account No. 501798.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	ONELLO & MELLO LLP		
Signature			
Printed name	David M. Mello		
Date	AUG 10 2017	Reg. No.	43,799

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Kasia Muscarella	Date	August 10, 2017

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

SUPPLEMENTAL APPLICATION DATA SHEET

PTO/AIA/14 (07-14)

Approved for use through 04/30/2017. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPHO-0001-U02-G01-C06-C01-BT-007 CON
		Application Number	
Title of Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor	1				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Edward	H.	Nortrup		
Residence Information (Select One) • ☐ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Stoneham	State/Province	MA	Country of Residence	US
Mailing Address of Inventor:					
Address 1	73 Robin Hood Road				
Address 2					
City	Stoneham	State/Province	MA		
Postal Code	01280	02180	Country	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence Information of this application.

Customer Number	37004 29344		
Email Address	imonocello@gtclawgroup.com mail@omiplaw.com	Add Email	Remove Email
Email Address	isammarin@gtclawgroup.com	Add Email	Remove Email
Email Address	gtedocketing@opaglobal.com		Remove Email

Application Information:

Title of the Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		
Attorney Docket Number	IPHO-0001-U02-G01-BT-007 CON	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	66	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	~~IPHO-0001-U02-C01-C06-C01~~ BT-007 CON
		Application Number	
Title of Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	37084 29344		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	14/289370	2014-05-28
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14/289370	Continuation of	13/019869	2011-02-02

SUPPLEMENTAL APPLICATION DATA SHEET

PTO/AIA/14 (07-14)

Approved for use through 04/30/2017. OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		1PHO-0001-U02-C01-C06-C01-BL-007 CON	
		Application Number			
Title of Invention		A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION			
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/019869	Continuation of	12/391745	2009-02-24	7904240	2011-03-08
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12/391745	Continuation of	11/052547	2005-02-07	7522995	2009-04-21
Prior Application Status		Expired		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11/052547	Claims benefit of provisional	60/541990	2004-02-05		
Prior Application Status		Expired		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11/052547	Claims benefit of provisional	60/578494	2004-06-10		
Prior Application Status		Expired		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11/052547	Claims benefit of provisional	60/617857	2004-10-12		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

		Remove	
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1PHO-0001-U02-C01-C06-C0 BT-007 CON
		Application Number	
Title of Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

SUPPLEMENTAL APPLICATION DATA SHEET

PTO/AIA/14 (12-13)

Approved for use through 01/31/2014. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	~~PHO-0001-U02-C04-C06-C04-BT-007 CON~~
		Application Number	
Title of Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

- ☒ Assignee
 ☐ Legal Representative under 35 U.S.C. 117
 ☐ Joint Inventor
- ☐ Person to whom the inventor is obligated to assign.
 ☐ Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name Blackbird Tech LLC

Mailing Address Information For Applicant:

Address 1	<u>One Boston Place</u>		
Address 2	<u>Suite 2600</u>		
City	<u>Boston</u>	State/Province	<u>MA</u>
Country	<u>US</u>	Postal Code	<u>02108</u>
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

SUPPLEMENTAL APPLICATION DATA SHEET

PTO/AIA/14 (07-14)

Approved for use through 04/30/2017. OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPHC-0001-U02-C01-C06-C01-BT-007 CON
		Application Number	
Title of Invention	A METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒	
Organization Name	

Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1			
Address 2			
City		State/Province	
Country ⁱ		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Add

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature	John A. Monocello, III/		Date (YYYY-MM-DD)	2015-12-16
First Name	John A.	Last Name	Monocello, III	Registration Number
			51022	

Additional Signature may be generated within this form by selecting the Add button.

Add

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/971,658	12/16/2015	Edward H. Nortrup	IPHO-0001-U02-C01-C06-C01

CONFIRMATION NO. 7270

POWER OF ATTORNEY NOTICE



87084
GTC Law Group PC & Affiliates
c/o CPA Global
900 Second Avenue South
Suite 600
Minneapolis, MN 55402

Date Mailed: 08/14/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/10/2017.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/s/ /



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON

CONFIRMATION NO. 7270

POA ACCEPTANCE LETTER



29344
ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

Date Mailed: 08/14/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/10/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tulu/



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
14/971,658	12/16/2015	3661	1370	BT-007 CON	31	1

CONFIRMATION NO. 7270
CORRECTED FILING RECEIPT



000000093410200

29344
ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

Date Mailed: 08/14/2017

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Edward H. Nortrup, Stoneham, MA;

Applicant(s)

Blackbird Tech LLC, Boston, MA;

Power of Attorney: The patent practitioners associated with Customer Number 29344

Domestic Priority data as claimed by applicant

This application is a CON of 14/289,370 05/28/2014 PAT 9243927
which is a CON of 13/019,869 02/02/2011 PAT 8744761
which is a CON of 12/391,745 02/24/2009 PAT 7904240
which is a CON of 11/052,547 02/07/2005 PAT 7522995
which claims benefit of 60/541,990 02/05/2004
and claims benefit of 60/578,494 06/10/2004
and claims benefit of 60/617,857 10/12/2004

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/31/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/971,658**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION

Preliminary Class

701

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270
29344 7590 07/12/2018 ONELLO & MELLO LLP Three Burlington Woods Drive Suite 203 Burlington, MA 01803-4532			EXAMINER NGUYEN, KIM T	
			ART UNIT 2454	PAPER NUMBER
			NOTIFICATION DATE 07/12/2018	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@omiplaw.com
docketing@omiplaw.com

Office Action Summary	Application No. 14/971,658	Applicant(s) NORTRUP, EDWARD H.	
	Examiner KIM T. NGUYEN	Art Unit 2454	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/16/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-31 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-31 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 12/16/2015 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) ☒ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413) |
| 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) | Paper No(s)/Mail Date. ____. |
| Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Claim Objections

2. Claims 4 is objected to because of the following informalities:

In claim 4, lines 2-3, the claimed limitation "a user ... a requestor" should be corrected to "the user ... the requestor".

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 16-24, 28 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

In claim 16, lines 1-2, the claimed limitation "the historical traffic condition" lacks of antecedent basis.

In claim 28, line 2, the claimed limitation "the beginning of travel" lacks of antecedent basis.

Claims 17-24 are rejected as being dependent on the rejected base claims.

Claim Rejections - 35 USC § 103

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-31 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fan et al (US 2003/0009277) in view of Nishimura et al (US 5,638,280).

As per claim 1, Fan teaches a computer program product that, when executing on one or more computers, performs the steps of:

automatically receiving a current location (para 0031, 0046); and

presenting a roadway map of an area proximate the current location based at least in part on a traffic condition (Fig. 8, para 0043), wherein the traffic condition is at least in part based on a plurality of cell phone speeds on the route (para 0033, 0041), each of the plurality of cell phone speeds estimated through an assessment of multiple locations of each of the plurality of cell phones, as determined through electronic triangulation (e.g. using GPS, para 0029, 0031), wherein each of the plurality of cell phones further has a user initiated permission set to permit a requestor to obtain its location (e.g. users registered with the system, para 0036, 0037).

Fan does not explicitly teach presenting a roadway map of an area proximate the current location including at least one route from the current location to a destination. However, Nishimura teaches displaying a road map of an area proximate the current location including at

least one route from the current location to a destination (col. 4, lines 26-32). It would have been obvious to one of the ordinary skill in the art before the effective filing date of the claimed invention to combine the teachings of Fan with those of Nishimura in order to facilitate providing driving directions to users.

As per claim 2-3, Fan teaches wherein each of the plurality of cell phones communicates its respective locations/speed through a cellular network infrastructure to a server for calculation of the traffic condition (Fig. 1; para 0029, 0030).

As per claim 4, Fan teaches wherein the current location is received following a confirmation of a user setting permitting the current location to be obtained by a requestor (e.g. when the user registered with the system, para 0036).

As per claim 5, Fan teaches wherein the user initiated permission is set through a user interface presented on a user device (para 0036, 0026).

As per claim 6, Fan teaches receiving a navigation request to assist a driver in navigating to the destination (para 0026, 0046).

As per claim 7-9, Fan does not explicitly teach the detailed limitation of claims 7-9. However, selecting a plurality of cell phones from the candidate set of cell phones based on a comparison of a location of each of the plurality of cell phones to a location of the route, and automatically receiving the destination from source that is remote from a device on which the

roadway map is presented would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 10-12, Fan teaches wherein the triangulation system includes a global positioning system (GPS) (Fig. 1; para 0029). Furthermore, the triangulation system includes cell phone tower triangulation, or both cell phone tower and global positioning system (GPS) triangulation would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 13, Fan teaches wherein the map includes a visual indication of traffic on the route (Fig. 8, 10, para 0043, 0045).

As per claim 14, Fan teaches providing an estimation of how much time is predicted to travel through the traffic condition (para 0047).

As per claim 15-16, Fan teaches including a historical traffic condition (para 0034). Fan further teaches wherein the historical traffic condition includes traffic information based at least in part on an event recorded at a time of the historical traffic condition (para 0034). Furthermore, determining a route from a current location to the destination is based on a comparison of the event recorded at the time of the historical traffic condition and a currently occurring event would have been well-known to a person of ordinary skill in the art.

As per claim 17-24, Fan teaches wherein the event is a time of day or a day of a week (para 0034). Furthermore, determining traffic condition based on weather condition, a day of a year, holiday, or a type of road condition such as roadwork or an accident would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 25-26, Fan teaches a real time traffic condition (para 0046). Fan further teaches determining a second route to the destination such that a user can select the second route as an alternate route through a user interface (para 0046, 0050).

As per claim 27-31, Fan teaches estimating travel time under traffic conditions and transmitting the estimated travel time to the user (para 0047). One of ordinary skill in the art would be able to obtaining estimated time of arrival at the destination from an intended leave time and a known estimated travel time and presenting the estimated time of arrival to the user in order to allow users to get accurate route guidance information for future travel plan. Furthermore, presenting a user interface to adjust the intended leave time or save a future destination for future choosing, the route is based on a prior recording of an actual route traveled from a location proximate the current location to the destination, and providing a warning to a driver travelling on the route of the traffic condition would have been well-known to a person of ordinary skill in the art.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIM T. NGUYEN whose telephone number is (571)272-4441. The examiner can normally be reached on Monday - Thursday (8:30AM - 5:00 PM).

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Umar Cheema can be reached on (571) 270-3037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIM T NGUYEN/
Primary Examiner, Art Unit 2454

Notice of References Cited	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination NORTRUP, EDWARD H.	
	Examiner KIM T. NGUYEN	Art Unit 2454	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2003/0009277 A1	01-2003	Fan, Rodric C.	G01C21/3492	701/117
*	B	US-5,638,280 A	06-1997	Nishimura; Shigeki	G01C21/3446	340/990
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Receipt date: 06/06/2017

14/971,658 - GAU: 2454

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	14971658
	Filing Date	2015-12-16
	First Named Inventor	Edward H. Nortrup
	Art Unit	3661
	Examiner Name	NOLAN, PETER D.
	Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6480783		2002-11-12	MYR	
	2	6539080		2003-03-25	BRUCE, et al.	
	3	6539302	B1	2003-03-25	BENDER, et al.	
	4	6594576		2003-07-15	FAN, et al.	
	5	6611750	B2	2003-08-26	MACPHAIL, et al.	
	6	6615130		2003-09-02	MYR	
	7	6810321	B1	2004-10-26	COOK, et al.	
	8	7522995		2009-04-21	NORTRUP	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

9	7904240	B2	2011-03-08	NORTRUP
10	8306746		2012-11-06	NORTRUP
11	8380429		2013-02-19	NORTRUP
12	8457871		2013-06-04	NORTRUP
13	8478512		2013-07-02	NORTRUP
14	8489314		2013-07-16	NORTRUP
15	8548719		2013-10-01	NORTRUP
16	8744761		2014-06-03	NORTRUP
17	8855905		2014-10-07	NORTRUP
18	9014972	B2	2015-04-21	NORTRUP
19	9086295	B2	2015-07-21	NORTRUP

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

20	9243927	B2	2016-01-26	NORTRUP
21	9400190	B2	2016-07-26	NORTRUP

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20010029425	A1	2001-10-11	MYR	
	2	20020107634	A1	2002-08-08	LUCIANI	
	3	20040198389	A1	2004-10-07	ALCOCK, et al.	
	4	20050158376		2005-07-21	SARDI, et al.	
	5	20050197767	A1	2005-09-08	NORTRUP	
	6	20070014833		2007-01-18	MILBURN, et al.	
	7	20070276594	A1	2007-11-29	TRAMEL	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

8	20090082286		2009-03-26	HUANG, et al.
9	20090082950	A1	2009-03-26	VORONA
10	20090157310	A1	2009-06-18	NORTRUP
11	20100027527	A1	2010-02-04	HIGGINS, et al.
12	20100082403	A1	2010-04-01	HIGGINS, et al.
13	20110125559	A1	2011-05-26	NORTRUP
14	20110276259	A1	2011-11-10	NORTRUP
15	20110282567	A1	2011-11-17	NORTRUP
16	20110282746	A1	2011-11-17	NORTRUP
17	20120059573	A1	2012-03-08	NORTRUP
18	20120065872	A1	2012-03-15	NORTUP

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

19	20120190453	A1	2012-07-26	SKAFF, et al.
20	20120191880	A1	2012-07-26	GANDHI, et al.
21	20120324434	A1	2012-12-20	TEWARI, et al.
22	20130027561	A1	2013-01-31	LEE, et al.
23	20130030694	A1	2013-01-31	NORTRUP
24	20130030875	A1	2013-01-31	LEE, et al.
25	20130290234	A1	2013-10-31	HARRIS, et al.
26	20140278035	A1	2014-09-18	NORTRUP
27	20140316687	A1	2014-10-23	NORTRUP
28	20140365115	A1	2014-12-11	NORTRUP, et al.
29	20150276418	A1	2015-10-01	NORTRUP

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2007112366	WO	A2	2007-10-04	Cella, et al.		

If you wish to add additional Foreign Patent Document citation information please click the Add button.

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		

If you wish to add additional non-patent literature document citation information please click the Add button.

EXAMINER SIGNATURE

Examiner Signature	/KIM T NGUYEN/	Date Considered	07/02/2018
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	14971658
Filing Date	2015-12-16
First Named Inventor	Edward H. Nortrup
Art Unit	3661
Examiner Name	NOLAN, PETER D.
Attorney Docket Number	IPHO-0001-U02-C01-C06-C01

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/John A. Monocello/	Date (YYYY-MM-DD)	2017-06-06
Name/Print	John A. Monocello	Registration Number	51022

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	50	("20010029425" "20020107634" "20040198389" "20050158376" "20050197767" "20070014833" "20070276594" "20090082286" "20090082950" "20090157310" "20100027527" "20100082403" "20110125559" "20110276259" "20110282567" "20110282746" "20120059573" "20120065872" "20120190453" "20120191880" "20120324434" "20130027561" "20130030694" "20130030875" "20130290234" "20140278035" "20140316687" "20140365115" "20150276418" "6480783" "6539080" "6539302" "6594576" "6611750" "6615130" "6810321" "7522995" "7904240" "8306746" "8380429" "8457871" "8478512" "8489314" "8548719" "8744761" "8855905" "9014972" "9086295" "9243927" "9400190").PN.	US-PGPUB; USPAT	OR	ON	2018/06/22 09:10
S2	927	traffic same ((mobile or cell) near3 (speed or velocity)) same (route or region or area)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/22 09:14
S3	30	S1 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/22 09:14
S6	102529	(permission or authoriz\$5 or allow\$3) near14 (obtain\$3 or receiv\$3) near14 (location or position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/22 09:18
S7	29	S1 and S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/22 09:18
S9	50	("20010029425" "20020107634"	US-PGPUB;	OR	ON	2018/06/26

		"20040198389" "20050158376" "20050197767" "20070014833" "20070276594" "20090082286" "20090082950" "20090157310" "20100027527" "20100082403" "20110125559" "20110276259" "20110282567" "20110282746" "20120059573" "20120065872" "20120190453" "20120191880" "20120324434" "20130027561" "20130030694" "20130030875" "20130290234" "20140278035" "20140316687" "20140365115" "20150276418" "6480783" "6539080" "6539302" "6594576" "6611750" "6615130" "6810321" "7522995" "7904240" "8306746" "8380429" "8457871" "8478512" "8489314" "8548719" "8744761" "8855905" "9014972" "9086295" "9243927" "9400190").PN.	USPAT			11:21
S10	2312	(user or driver or client) near14 (initiat\$3 or provid\$3 or start\$3) near14 (permission or permit\$4 authoriz\$5 or allow\$3) near14 (obtain\$3 or receiv\$3 or monitor\$3 or track\$3) near14 (location or position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 11:26
S11	53	S10 and ((cell or mobile) near3 speed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 11:26
S12	15	(cell or mobile) near14 (communicat\$3 or send\$3 or transmit\$4) near14 server near14 (location or position) near14 (traffic near3 condition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 11:28
S13	5	S11 and (traffic near3 condition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 11:39
S14	312	traffic near14 (base\$1 or depend\$3) near14 ((mobile or cell) near3 (speed or velocity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 13:45
S15	58	(traffic near3 condition) near14 (base\$1 or depend\$3) near14 ((mobile or cell) near3 (speed or velocity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2018/06/26 13:46

			IBM_TDB			
S16	627	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 14:10
S17	3	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 14:10
S18	57	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 15:13
S21	2	((("20030009277") or ("20010029425")).PN.	US-PGPUB; USPAT	OR	OFF	2018/06/29 12:17
S26	2	((("20030009277") or ("20010029425")).PN.	US-PGPUB; USPAT	OR	OFF	2018/06/29 13:36
S27	3	(present\$3 or display\$3) near8 (roadway or map) near8 (proximate or close\$1) near8 ((current near3 location) or origin) near8 destination near8 route	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:01
S28	7	(present\$3 or display\$3) near8 (proximate or close\$1) near8 ((current near3 location) or origin) near8 destination near8 route	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:03
S29	628	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:42
S30	14	S29 same (traffic near5 (condition or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:42
S31	11	(present\$3 or display\$3) near14 (map or route) near14 (proximate\$3 or close\$1) near14 current near14 destination near14 traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2018/06/29 14:48

			IBM_TDB			
S32	268	S29 and traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:50
S33	39	S32 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 14:50
S34	58	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 15:01
S35	15	S34 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/29 15:01
S36	58	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 07:57
S37	15	S36 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 07:57
S38	6	S37 and traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 08:49
S39	2	((("20030009277") or ("5638280")).PN.	US-PGPUB; USPAT	OR	OFF	2018/07/02 08:56
S40	406196	G01C21/3667. "cpc." or G01C21/3694.cpc. or G01C21/3697.cpc. or G06Q30/0207.cpc. or G06Q30/0266.cpc. or G06Q30/0269.cpc. or G08G1/0112.cpc. or G08G1/0133.cpc. or G08G1/0141.cpc. or G08G1/096741.cpc. or G08G1/096775.cpc. or G08G1/096811.cpc. or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 09:07

		G08G1/096883.cpc. or H04M1/72572.cpc. or H04M1/72577.cpc. or H04M2250/10.cpc. or H04W4/02.cpc. or H04W4/12.cpc. or G06F8/60.cpc. or G06N5/022.cpc. or G06Q10/00.cpc. or G06Q10/06.cpc. or G06Q30/02.cpc. or G08G1/0967.cpc. or G01C21/3407.cpc. or H04W4/027.cpc. or H04W4/046.cpc. or G08G1/012.cpc. or G01S19/52.cpc. or G01S19/42.cpc. or G08G1/091.cpc. or G08G1/052.cpc. or G08G1/0129.cpc.				
S41	23	S36 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 09:09
S47	176	(intend\$3 near8 (leave time)) near14 travel\$4 near14 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 11:32
S48	35	S47 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 11:32
S49	16864	(intend\$3 or plan\$4) near8 ((leave or departure or start\$3 or begin\$4) near5 time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 11:43
S50	54	(present\$3 or display\$3) near14 ((time near3 arrival) or TOA) near14 (base\$1 or accord\$3 or relat\$3) near14 (traffic near3 (condition or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 11:59
S51	5	S50 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 11:59
S52	68	(present\$3 or display\$3) near14 (estimat\$3 near3 time near3 arrival) near14 (traffic near3 (condition or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 12:02
S53	88	(adjust\$3 or chang\$3) near8 ((leav\$3 or	US-PGPUB;	OR	ON	2018/07/02

EAST Search History

		departure or start\$3 or begin\$4) near5 time) near14 (estimat\$3 near5 (travel or (time near3 arrival)))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:23
S54	23	S53 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 12:24
S55	211	((adjust\$3 or chang\$3) near8 ((leav\$3 or departure or start\$3 or begin\$4) near5 time)) same (estimat\$3 near5 (travel or (time near3 arrival)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 12:26
S56	38	S55 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/02 12:26
S58	2	((("BLACKBI RD") near3 ("TECH") near3 ("LLC"))).AS,AANM.	USPAT	OR	ON	2018/07/02 13:51
S59	137	((("NORTRUP") near3 ("Edward"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2018/07/02 13:51

EAST Search History (Interference)

<This search history is empty>

7/ 8/ 2018 5:38:49 PM

C:\Users\knguyen8\Documents\EAST\Workspaces\14971658.wsp

<i>Index of Claims</i> 	Application/Control No. 14971658	Applicant(s)/Patent Under Reexamination NORTRUP, EDWARD H.
	Examiner KIM T NGUYEN	Art Unit 2454

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

CLAIM		DATE									
Final	Original	07/02/2018									
	1	✓									
	2	✓									
	3	✓									
	4	✓									
	5	✓									
	6	✓									
	7	✓									
	8	✓									
	9	✓									
	10	✓									
	11	✓									
	12	✓									
	13	✓									
	14	✓									
	15	✓									
	16	✓									
	17	✓									
	18	✓									
	19	✓									
	20	✓									
	21	✓									
	22	✓									
	23	✓									
	24	✓									
	25	✓									
	26	✓									
	27	✓									
	28	✓									
	29	✓									
	30	✓									
	31	✓									

Search Notes 	Application/Control No. 14971658	Applicant(s)/Patent Under Reexamination NORTRUP, EDWARD H.
	Examiner KIM T NGUYEN	Art Unit 2454

CPC- SEARCHED		
Symbol	Date	Examiner
G08G1/096811, G08G1/096883, H04M1/72572, H04M1/72577, H04M2250/10, H04W4/02, H04W4/12, G06F8/60, G06N5/022, G06Q10/00, G06Q10/06, G06Q30/02	7/2/2018	KN

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
CPC search with text search	7/2/2018	KN
East search	7/2/2018	KN
Inventor and assignee name search	7/2/2018	KN

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

--	--

Bibliographic Data

Application No: 14/971,658

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/KIM T NGUYEN/

Examiner's Signature

Initials

Title:

METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME
INFORMATION

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/16/2015	709	2454	BT-007 CON
RULE			

APPLICANTS

Blackbird Tech LLC, Boston, MA, UNITED STATES

INVENTORS

Edward H. Nortrup Stoneham, MA, UNITED STATES

CONTINUING DATA

This application is a CON of 14289370 05/28/2014 PAT 9243927

14289370 is a CON of 13019869 02/02/2011 PAT 8744761

13019869 is a CON of 12391745 02/24/2009 PAT 7904240

12391745 is a CON of 11052547 02/07/2005 PAT 7522995

11052547 has PRO of 60617857 10/12/2004

11052547 has PRO of 60578494 06/10/2004

11052547 has PRO of 60541990 02/05/2004

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/31/2015

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

ONELLO & MELLO LLP

Three Burlington Woods Drive

Suite 203

Burlington, MA 01803-4532

UNITED STATES

FILING FEE RECEIVED

\$1,170

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 14/971,658		Filing Date 12/16/2015		☐ To be Mailed		
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)							
FOR		NUMBER FILED	NUMBER EXTRA	RATE (\$)		FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A	N/A						
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A	N/A						
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A	N/A						
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =	*	x \$40 =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*	x \$210 =						
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL						
APPLICATION AS AMENDED - PART II										
		(Column 1)	(Column 2)	(Column 3)						
AMENDMENT	11/12/2018	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	* 31	Minus	** 31	= 0	x \$50 =		0		
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0	x \$230 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE		0			
AMENDMENT		(Column 1)	(Column 2)	(Column 3)						
		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
					TOTAL ADD'L FEE					
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.					SLIE					
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".					/DESHONNE T. MARTINO/					
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Edward H. Nortrup Examiner: Nguyen, Kim T.
Serial No.: 14/971,658 Group Art Unit: 2454
Filing Date: December 16, 2015 Confirmation No.: 7270
Title: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME
INFORMATION
Customer No.: 29344 Attorney Docket No.: BT-007CON

CERTIFICATE OF ELECTRONIC SUBMISSION

I hereby certify that this correspondence and any correspondence referred to as being attached or enclosed is being sent by electronic submission to the United States Patent and Trademark Office on the date indicated next to my name.

November 12, 2018
Date

Kasia Muscarella
Kasia Muscarella

Via Electronic Submission
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO OFFICE ACTION

Sir:

In response to the Office Action of July 12, 2018, please amend the above-captioned patent application as follows and consider the remarks provided herein.

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 7 of this paper.

Electronic Patent Application Fee Transmittal				
Application Number:		14971658		
Filing Date:		16-Dec-2015		
Title of Invention:		METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		
First Named Inventor/Applicant Name:		Edward H. Nortrup		
Filer:		David M. Mello/Kasia Muscarella		
Attorney Docket Number:		BT-007 CON		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	2251	1	100	100
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt	
EFS ID:	34275627
Application Number:	14971658
International Application Number:	
Confirmation Number:	7270
Title of Invention:	METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION
First Named Inventor/Applicant Name:	Edward H. Nortrup
Customer Number:	29344
Filer:	David M. Mello./Kasia Muscarella
Filer Authorized By:	David M. Mello.
Attorney Docket Number:	BT-007 CON
Receipt Date:	12-NOV-2018
Filing Date:	16-DEC-2015
Time Stamp:	13:15:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$100
RAM confirmation Number	111318INTEFSW13164500
Deposit Account	501798
Authorized User	David Mello
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		007CON_Response201807120A.pdf	680021 87f10e69c4e0b33f3c7d0d854bc364a1bb04a1e2	yes	9
Multipart Description/PDF files in .zip description					
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		7	9	
	Claims		2	6	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30727 050dd93ec8140d1eb3f878759f71f557223d93bc	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			710748		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REMARKS

Claims 1-31 are pending in this application. Claims 1, 4, 6, 9-12, 14, 16, and 26-28 were amended for clarification. Support for the amendment to claim 1 is found in Fig. 54 and paragraph 0255.

I. Claim Objections.

Claim 4 was objected to because of informalities as stated in the Office Action. Claim 4 has been amended herein as recommended. Withdrawal of the objection is requested.

II. Claim Rejections under 35 USC 112.

Claims 16-24 and 28 are rejected under 35 U.S.C. 112(b) as being indefinite for lack of antecedent basis. These claims have been amended to correct the antecedent basis issues. The other amendments were made to correct typos.

Withdrawal of the rejection is requested.

III. The Claimed Inventions are Novel and Non-Obvious.

The Examiner rejected claims 1-31 under pre-AIA 35 U.S.C. § 103(a) as being unpatentable over Fan et al. (US 2003/0009277) in view of Nishimura et al. (US 5,638,280).

Independent claim 1 (as amended) recites:

wherein each of the plurality of cell phones further has a user initiated permission set comprised of a list of authorizations that permit access to user cellphone location data.

Fan does not disclose any permission set at all, and certainly none that includes a list of authorizations that permit access to the cellphone location information received from a user. Fan merely describes registering users within a system. Such registration is not a permission set.

The paragraphs in Fan cited by the Examiner relate to a table, which is comprised of data collected and indexed by mobile units (Fan ¶ 0036, Fig. 4). Fan further describes that the “table may also contain information provided by users 22-1 through 22-n during the initial registration process.” (*Id.* ¶ 0036). The “information provided by users” is “information such as name, address, telephone number, and email address. Data regarding vehicle may include make and mode of vehicle, gas tank size, miles traveled, gas mileage, and license plate number” (*Id.* ¶ 0036). As is apparent, this information disclosed in Fan is not a list of authorizations that permit access to user cellphone location data.

Nishimura likewise does not disclose a permission set. The Examiner states that it discloses “displaying a road map of an area proximate the current location including at least one route from the current location to a destination”.

Thus, the combination of Fan and Nishimura does not disclose the elements of independent Claim 1, and Claim 1 is therefore allowable as non-obvious over the prior art.

Because remaining claims 2-31 depend on claim 1, they are also non-obvious for the same reasons.

Applicant believes that all claims are novel and non-obvious over the prior art of record, and respectfully requests allowance.

IV. Conclusion

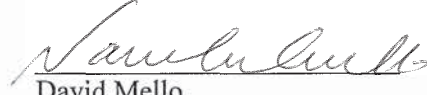
In view of the above, the Examiner’s rejections are believed to have been overcome, placing the pending claims in condition for allowance and reconsideration and allowance thereof is respectfully requested. If prosecution of the application can be expedited by a telephone conference, the Examiner is invited to call the undersigned at the number given below.

Application No.: 14/971,658
Amendment dated: 11/12/2018
Reply to Office Action of July 12, 2018
Attorney Docket No.: BT-007CON

In connection with this matter, please charge any otherwise unpaid fees which may be due, or credit any overpayment, to Deposit Account No. 501798.

Respectfully submitted,

Date: **NOV 12 2018**
Onello & Mello, LLP
3 Burlington Woods Drive, Suite 203
Burlington, MA 01803
Telephone: (617) 994-4900, Ext. 4959
Facsimile: (617) 742-7774


David Mello
Registration Number 43,799
Attorney for Applicant

007CON_Response20180712OA.docx

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer program product that, when executing on one or more computers, performs the steps of:
automatically receiving a current location; and
presenting a roadway map of an area proximate the current location, wherein the map includes at least one route from the current location to a destination based at least in part on a traffic condition, wherein the traffic condition is at least in part based on a plurality of cell phone speeds ~~on the route, each of the plurality of cell phone speeds~~ estimated through an assessment of multiple locations of each of the plurality of cell phones, ~~as determined through electronic triangulation,~~ wherein each of the plurality of cell phones further has a user initiated permission set comprised of a list of authorizations that [[to]] permit a requestor to obtain its location access to user cellphone location data.
2. (Original) The computer program product of claim 1, wherein each of the plurality of cell phones communicates its respective locations through a cellular network infrastructure to a server for calculation of the traffic condition.
3. (Original) The computer program product of claim 1, wherein each of the plurality of cell phones communicates its respective speed through a cellular network infrastructure to a server for calculation of the traffic condition.
4. (Currently Amended) The computer program product of claim 1, wherein ~~the current location is received~~ access to user cellphone location data is granted following a

confirmation of ~~a user setting permitting the current location to be obtained by a requester~~ at least one entry on the list of authorizations.

5. (Original) The computer program product of claim 1, wherein the user initiated permission is set through a user interface presented on a user device.
6. (Currently Amended) The computer program product of claim 1, further comprising[[],] receiving a navigation request to assist a driver in navigating to the destination.
7. (Original) The computer program product of claim 1, wherein the plurality of cell phones is selected from a candidate set of cell phones in an area proximate the route.
8. (Original) The computer program product of claim 7, wherein the selection of the plurality of cell phones from the candidate set of cell phones is based at least in part on a comparison of a location of each of the plurality of cell phones to a location of the route.
9. (Currently amended) The computer program product of claim 1, wherein the step of receiving a destination comprises automatically receiving the destination from a source that is remote from a device on which the roadway map is presented.
10. (Currently Amended) The computer program product of claim 1, ~~wherein the triangulation system includes a global positioning system (GPS)~~ further including a triangulation system.
11. (Currently Amended) The computer program product of claim 10, wherein the triangulation system includes cell phone tower triangulation.

12. (Currently Amended) The computer program product of claim 10, wherein the triangulation system includes ~~both cell phone tower and~~ global positioning (GPS) triangulation.
13. (Original) The computer program product of claim 1, wherein the map includes a visual indication of traffic on the route.
14. (Currently Amended) The computer program product of claim 1, further comprising [[,]] providing an estimation of how much time is predicted to travel through the traffic condition.
15. (Original) The computer program product of claim 1, wherein the traffic condition is a historical traffic condition.
16. (Currently Amended) The computer program product of claim 15, wherein the historical traffic condition includes traffic information based at least in part on an event recorded at a time of the historical traffic condition, and wherein the at least one route from the current location to the destination is further based at least in part on a comparison of the event recorded at the time of the historical traffic condition and a currently occurring event.
17. (Original) The computer program product of claim 16, wherein the event is a weather condition.
18. (Original) The computer program product of claim 16, wherein the event is a time of day.
19. (Original) The computer program product of claim 16, wherein the event is a day of a week.

20. (Original) The computer program product of claim 16, wherein the event is a day of a year.

21. (Original) The computer program product of claim 16, wherein the event is a holiday.

22. (Original) The computer program product of claim 16, wherein the event is a type of road condition.

23. (Original) The computer program product of claim 22, wherein the type of road condition is roadwork.

24. (Original) The computer program product of claim 22, wherein the type of road condition is an accident.

25. (Original) The computer program product of claim 1, wherein the traffic condition is a real time traffic condition that represents traffic on the route at a time when the roadway map is presented.

26. (Currently Amended) The computer program product of claim 1, wherein the roadway map further ~~comprising~~ comprises a second route to the destination such that a user can select the second route as an alternate route through a user interface.

27. (Currently Amended) The computer program product of claim 1, further comprising ~~[[,]]~~ presenting an estimated time of arrival at the destination based at least in part on the traffic condition.

28. (Currently Amended) The computer program product of claim 27, further comprising ~~[[,]]~~ receiving an intended leave time for ~~the beginning of travel~~ to the destination, and further comprising ~~[[,]]~~ presenting a user interface to adjust the intended

leave time such that a user can understand an effect of leave time on estimated travel time.

29. (Original) The computer program product of claim 1, further comprising, presenting a user interface to save a future destination for future choosing, wherein the future choosing selects the saved future destination and forms the destination.

30. (Original) The computer program product of claim 1, wherein the route is further based at least in part on a prior recording of an actual route traveled from a location proximate the current location to the destination by a user represented by a device at the current location.

31. (Original) The computer program product of claim 1, further comprising a warning system adapted to warn a driver traveling on the route of the traffic condition, wherein the warning is based on a proximity of the driver, as determined by the current location, to the adverse traffic condition.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270
29344 7590 02/14/2019 ONELLO & MELLO LLP Three Burlington Woods Drive Suite 203 Burlington, MA 01803-4532			EXAMINER NGUYEN, KIM T	
			ART UNIT 2454	PAPER NUMBER
			NOTIFICATION DATE 02/14/2019	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@omiplaw.com
mail@omiplaw.com

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Claim Objections

2. Claim 12 is objected to because of the following informalities:

In claim 12, line 2, the claimed limitation “global positioning (GPS)” should be corrected to “global positioning system (GPS)”.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-31 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

In claim 1, line 9, the claimed limitation “the plurality of cell phones” lacks of antecedent basis.

In claim 5, lines 1-2, the claimed limitation “the user initiated permission” lacks of antecedent basis.

In claim 9, lines 1-2, the claimed limitation “the step of receiving a destination” lacks of antecedent basis.

In claim 31, line 4, the claimed limitation “the adverse traffic condition” lacks of antecedent basis.

The remaining claims are rejected as being dependent on the rejected base claims.

Claim Rejections - 35 USC § 103

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-31 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fan et al (US 2003/0009277) in view of Nishimura et al (US 5,638,280).

As per claim 1, Fan teaches a computer program product that, when executing on one or more computers, performs the steps of:

automatically receiving a current location (para 0031, 0046); and

presenting a roadway map of an area proximate the current location based at least in part on a traffic condition (Fig. 8, para 0043), wherein the traffic condition is at least in part based on a plurality of cell phone speeds (para 0033, 0041) estimated through an assessment of multiple locations of each of the plurality of cell phones (e.g. using GPS, para 0029, 0031), wherein each of the plurality of cell phones further has a user initiated permission set (e.g.

users registered with the system, para 0036, 0037) comprised a list of authorizations (e.g. table 28 of fig. 4 contains a list of authorizations) that permit access to user cellphone location data.

Fan does not explicitly teach presenting a roadway map of an area proximate the current location including at least one route from the current location to a destination. However, Nishimura teaches displaying a road map of an area proximate the current location including at least one route from the current location to a destination (col. 4, lines 26-32). It would have been obvious to one of the ordinary skill in the art before the effective filing date of the claimed invention to combine the teachings of Fan with those of Nishimura in order to facilitate providing driving directions to users.

As per claim 2-3, Fan teaches wherein each of the plurality of cell phones communicates its respective locations/speed through a cellular network infrastructure to a server for calculation of the traffic condition (Fig. 1; para 0029, 0030).

As per claim 4, Fan teaches wherein access to user cellphone location data is granted following a confirmation of an entry on the list of authorizations (e.g. when the user registered with the system, para 0036).

As per claim 5, Fan teaches wherein the user initiated permission is set through a user interface presented on a user device (para 0036, 0026).

As per claim 6, Fan teaches receiving a navigation request to assist a driver in navigating to the destination (para 0026, 0046).

As per claim 7-9, Fan does not explicitly teach the detailed limitation of claims 7-9. However, selecting a plurality of cell phones from the candidate set of cell phones based on a comparison of a location of each of the plurality of cell phones to a location of the route, and automatically receiving the destination from source that is remote from a device on which the roadway map is presented would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 10-12, Fan teaches including a global positioning system (GPS) (Fig. 1; para 0029). Furthermore, the triangulation system includes cell phone tower triangulation, or global positioning system (GPS) triangulation would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 13, Fan teaches wherein the map includes a visual indication of traffic on the route (Fig. 8, 10, para 0043, 0045).

As per claim 14, Fan teaches providing an estimation of how much time is predicted to travel through the traffic condition (para 0047).

As per claim 15-16, Fan teaches including a historical traffic condition (para 0034). Fan further teaches wherein the historical traffic condition includes traffic information based at least in part on an event recorded at a time of the historical traffic condition (para 0034). Furthermore, determining a route from a current location to the destination is based on a comparison of the event recorded at the time of the historical traffic condition and a currently occurring event would have been well-known to a person of ordinary skill in the art.

As per claim 17-24, Fan teaches wherein the event is a time of day or a day of a week (para 0034). Furthermore, determining traffic condition based on weather condition, a day of a year, holiday, or a type of road condition such as roadwork or an accident would have been both well-known and obvious matter of design choice based on a desired criteria of a particular implementation requires only routine skill in the art.

As per claim 25-26, Fan teaches a real time traffic condition (para 0046). Fan further teaches determining a second route to the destination such that a user can select the second route as an alternate route through a user interface (para 0046, 0050).

As per claim 27-31, Fan teaches estimating travel time under traffic conditions and transmitting the estimated travel time to the user (para 0047). One of ordinary skill in the art would be able to obtaining estimated time of arrival at the destination from an intended leave time and a known estimated travel time and presenting the estimated time of arrival to the user in order to allow users to get accurate route guidance information for future travel plan. Furthermore, presenting a user interface to adjust the intended leave time or save a future destination for future choosing, the route is based on a prior recording of an actual route traveled from a location proximate the current location to the destination, and providing a warning to a driver travelling on the route of the traffic condition would have been well-known to a person of ordinary skill in the art.

Response to Arguments

7. Applicant's arguments filed 11/12/2018 have been fully considered but they are not persuasive.

In response to applicant's argument on page 7, part III, regarding to the 35 U.S.C. 103(a) rejections, Fan does disclose each of the plurality of cell phones (e.g. mobile units 12-1 through 12-n) has a user initiated permission set comprises of a list of authorizations that permit access to user cellphone location data (e.g. a table 28 contains information provided by users during the initial registration process, the table 28 also contains lists of columns 50-55 and 26, Fig. 4; para 0036, 0037). Furthermore, it is noted that the features "permission set" and "list of authorizations" are not specifically defined therefore information contained in table 28 is

considered as “permission set” and “list of authorizations” as claimed. Nishimura does not explicitly teach the permission set. However, Fan teaches the claimed limitation. Refer to the detail rejection under 35 U.S.C. 103 in claim 1 above.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIM NGUYEN whose telephone number is (571)272-4441. The examiner can normally be reached on M-F 8:00AM-4:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is

encouraged to use the USPTO Automated Interview Request (AIR) at
<http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Umar Cheema can be reached on (571)270-3037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIM T NGUYEN/
Primary Examiner, Art Unit 2454

<i>Search Notes</i> 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.
	Examiner KIM NGUYEN	Art Unit 2454

CPC - Searched*		
Symbol	Date	Examiner
G08G1/096811, G08G1/096883, H04M1/72572, H04M1/72577, H04M2250/10, H04W4/02, H04W4/12, G06F8/60, G06N5/022, G06Q10/00, G06Q10/06, G06Q30/02	02/08/2019	KN

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
CPC search with text search	02/08/2019	KN
East search	02/08/2019	KN
Inventor and assignee name search	02/08/2019	KN

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	
---	--

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S60	63	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 10:31
S61	441356	G01C21/3667. "cpc." or G01C21/3694.cpc. or G01C21/3697.cpc. or G06Q30/0207.cpc. or G06Q30/0266.cpc. or G06Q30/0269.cpc. or G08G1/0112.cpc. or G08G1/0133.cpc. or G08G1/0141.cpc. or G08G1/096741.cpc. or G08G1/096775.cpc. or G08G1/096811.cpc. or G08G1/096883.cpc. or H04M1/72572.cpc. or H04M1/72577.cpc. or H04M2250/10.cpc. or H04W4/02.cpc. or H04W4/12.cpc. or G06F8/60.cpc. or G06N5/022.cpc. or G06Q10/00.cpc. or G06Q10/06.cpc. or G06Q30/02.cpc. or G08G1/0967.cpc. or G01C21/3407.cpc. or H04W4/027.cpc. or H04W4/046.cpc. or G08G1/012.cpc. or G01S19/52.cpc. or G01S19/42.cpc. or G08G1/091.cpc. or G08G1/052.cpc. or G08G1/0129.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 10:31
S62	24	S60 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 10:31
S63	15	(cell or mobile) near14 (communicat\$3 or send\$3 or transmit\$4) near14 server near14 (location or position) near14 (traffic near3 condition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 10:37
S64	2472	(user or driver or client) near14 (initiat\$3 or provid\$3 or start\$3) near14 (permission or permit\$4 autoriz\$5 or allow\$3) near14 (obtain\$3 or receiv\$3 or monitor\$3 or track\$3) near14 (location or position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:03
S65	54	S64 and ((cell or mobile) near3 speed)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/02/08 11:03

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S66	5	S65 and (traffic near3 condition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:03
S67	59	(traffic near3 condition) near14 (base\$1 or depend\$3) near14 ((mobile or cell) near3 (speed or velocity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:20
S68	63	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:23
S69	677	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:31
S70	291	S69 and traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:31
S71	39	S70 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:31
S72	63	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:32
S73	191	(intend\$3 near8 (leave time)) near14 travel\$4 near14 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:48
S74	35	S73 and @ad<="20040205"	US-PGPUB;	OR	ON	2019/02/08;

EAST Search History

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:48
S75	76	(present\$3 or display\$3) near14 (estimat\$3 near3 time near3 arrival) near14 (traffic near3 (condition or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 11:51
S76	224	((adjust\$3 or chang\$3) near8 ((leav\$3 or departure or start\$3 or begin\$4) near5 time)) same (estimat\$3 near5 (travel or (time near3 arrival)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 12:53
S77	38	S76 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/08 12:53
S78	2	((("BLACKBIRD") near3 ("TECH") near3 ("LLC"))).AS,AANM.	USPAT	OR	ON	2019/02/08 16:22
S79	142	((("NORTRUP") near3 ("Edward"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/02/08 17:27

EAST Search History (Interference)

< This search history is empty >

2/ 8/ 2019 5:41:52 PM

C:\Users\knguyen8\Documents\EAST\Workspaces\14971658F.wsp

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 14/971,658		Filing Date 12/16/2015		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)	(Column 2)								
FOR		NUMBER FILED	NUMBER EXTRA	RATE (\$)		FEE (\$)					
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A	N/A							
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A	N/A							
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A	N/A							
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =	*	x \$40 =							
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*	x \$210 =							
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL							
APPLICATION AS AMENDED - PART II											
		(Column 1)	(Column 2)	(Column 3)							
AMENDMENT	04/15/2019	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	* 31	Minus	** 31	= 0	x \$50 =		0			
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0	x \$230 =		0			
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		0	
AMENDMENT		(Column 1)	(Column 2)	(Column 3)							
		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =					
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =					
	☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))											
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/DONNA D SMALLS LOGAN/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Edward H. Nortrup

Examiner: Kim T Nguyen

Serial No.: 14/971,658

Group Art Unit: 2454

Filing Date: December 16, 2015

Confirmation No.: 7270

Title: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME
INFORMATION

Customer No.: 29344

Attorney Docket No.: BT-007CON

CERTIFICATE OF ELECTRONIC SUBMISSION

I hereby certify that this correspondence and any correspondence referred to as being attached or enclosed is being sent by electronic submission to the United States Patent and Trademark Office on the date indicated next to my name.

April 15, 2019
Date

Kasia Muscarella
Kasia Muscarella

Via Electronic Submission

Mail Stop AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

Sir:

In response to the pending Final Office Action, mailed February 14, 2019, please amend the above-captioned patent application as follows and consider the remarks provided herein.

A **Listing of Claims** begins on page 2.

Remarks begin on page 7.

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer program product that, when executing on one or more computers performs the steps of:
automatically receiving a current location; and
presenting a roadway map of an area proximate the current location, wherein the map includes at least one route from the current location to a destination based at least in part on a traffic condition, wherein the traffic condition is at least in part based on a plurality of cell phone speeds estimated through an assessment of multiple locations of each of ~~[[the]]~~ a plurality of cell phones, wherein each of the plurality of cell phones further has a user initiated permission set comprised of a list of authorizations that permit a user to selectively enable or disable access to user cellphone location data.
2. (Original) The computer program product of claim 1, wherein each of the plurality of cell phones communicates its respective locations through a cellular network infrastructure to a server for calculation of the traffic condition.
3. (Original) The computer program product of claim 1, wherein each of the plurality of cell phones communicates its respective speed through a cellular network infrastructure to a server for calculation of the traffic condition.
4. (Previously Presented) The computer program product of claim 1, wherein access to user cellphone location data is granted following a confirmation of at least one entry on the list of authorizations.

5. (Currently Amended) The computer program product of claim 1, wherein the user initiated permission ~~[[is]]~~ set is accessed through a user interface presented on a user device.
6. (Previously Presented) The computer program product of claim 1, further comprising receiving a navigation request to assist a driver in navigating to the destination.
7. (Original) The computer program product of claim 1, wherein the plurality of cell phones is selected from a candidate set of cell phones in an area proximate the route.
8. (Original) The computer program product of claim 7, wherein the selection of the plurality of cell phones from the candidate set of cell phones is based at least in part on a comparison of a location of each of the plurality of cell phones to a location of the route.
9. (Currently Amended) The computer program product of claim 1, wherein ~~the step of receiving a destination comprises automatically receiving the destination~~ is received from a source that is remote from a device on which the roadway map is presented.
10. (Previously Presented) The computer program product of claim 1, further including a triangulation system.
11. (Previously Presented) The computer program product of claim 10, wherein the triangulation system includes cell phone tower triangulation.
12. (Currently Amended) The computer program product of claim 10, wherein the triangulation system includes global positioning system (GPS) triangulation.
13. (Original) The computer program product of claim 1, wherein the map includes a visual indication of traffic on the route.

14. (Previously Presented) The computer program product of claim 1, further comprising providing an estimation of how much time is predicted to travel through the traffic condition.
15. (Original) The computer program product of claim 1, wherein the traffic condition is a historical traffic condition.
16. (Previously Presented) The computer program product of claim 15, wherein the historical traffic condition includes traffic information based at least in part on an event recorded at a time of the historical traffic condition, and wherein the at least one route from the current location to the destination is further based at least in part on a comparison of the event recorded at the time of the historical traffic condition and a currently occurring event.
17. (Original) The computer program product of claim 16, wherein the event is a weather condition.
18. (Original) The computer program product of claim 16, wherein the event is a time of day.
19. (Original) The computer program product of claim 16, wherein the event is a day of a week.
20. (Original) The computer program product of claim 16, wherein the event is a day of a year.
21. (Original) The computer program product of claim 16, wherein the event is a holiday.

22. (Original) The computer program product of claim 16, wherein the event is a type of road condition.
23. (Original) The computer program product of claim 22, wherein the type of road condition is roadwork.
24. (Original) The computer program product of claim 22, wherein the type of road condition is an accident.
25. (Original) The computer program product of claim 1, wherein the traffic condition is a real time traffic condition that represents traffic on the route at a time when the roadway map is presented.
26. (Previously Presented) The computer program product of claim 1, wherein the roadway map further comprises a second route to the destination such that a user can select the second route as an alternate route through a user interface.
27. (Previously Presented) The computer program product of claim 1, further comprising presenting an estimated time of arrival at the destination based at least in part on the traffic condition.
28. (Previously Presented) The computer program product of claim 27, further comprising receiving an intended leave time for the destination, and further comprising presenting a user interface to adjust the intended leave time such that a user can understand an effect of leave time on estimated travel time.
29. (Original) The computer program product of claim 1, further comprising, presenting a user interface to save a future destination for future choosing, wherein the future choosing selects the saved future destination and forms the destination.

30. (Original) The computer program product of claim 1, wherein the route is further based at least in part on a prior recording of an actual route traveled from a location proximate the current location to the destination by a user represented by a device at the current location

31. (Currently Amended) The computer program product of claim 1, further comprising a warning system adapted to warn a driver traveling on the route of the traffic condition, wherein the warning is based on a proximity of the driver, as determined by the current location, to ~~[[the]]~~ an adverse traffic condition.

REMARKS

Claims 1-31 are pending in this application. Claims 1, 5, 9, 12, and 31 were amended to particularly point out and distinctly claim the subject matter of the invention. Support for the amendment to claim 1 is found in Figs. 54 and 58 and paragraphs 0258 and 0268. Claims 1, 9, and 31 are rejected under 35 U.S.C. 112(b) as being indefinite for lack of antecedent basis. Claims 1, 5, 9, and 31 have been amended to correct the antecedent basis. Claim 12 was rejected because of formalities and has been amended to correct the informality. The Examiner rejected claims 1-31 under pre-AIA 35 U.S.C. § 103(a) as being unpatentable over Fan et al (US 2003/0009277) in view of Nishimura et al (US 5,638,280).

Applicant believes that the claims are novel and non-obvious over the prior art of record, and respectfully requests allowance.

The Claimed Inventions are Novel and Non-Obvious.

The Examiner rejected claims 1-31 under pre-AIA 35 U.S.C. § 103(a) as being unpatentable over Fan et al (US 2003/0009277) in view of Nishimura et al (US 5,638,280). Independent claim 1 (as amended) recites:

wherein each of the plurality of cell phones further has a user
initiated permission set comprised of a list of authorizations that
permit a user to selectively enable or disable access to user
cellphone location data.

Fan does not disclose any permission set at all, and certainly none that includes a list of authorizations that permit a user to selectively enable or disable access to the cellphone location information received from a user. Fan merely describes registering users within a system that collects data. Such registration is not a permission set that can be selectively enabled or disabled.

The paragraphs in Fan cited by the Examiner relate to a table, which is comprised of data collected and indexed by mobile units (Fan ¶ 0036, Fig. 4). Fan further describes that the “table may also contain information provided by users 22-1 through 22-n during the initial registration process.” (*Id.* ¶ 0036). The “information provided by users” is “information such as name, address, telephone number, and email address. Data regarding vehicle may include make and mode of vehicle, gas tank size, miles traveled, gas mileage, and license plate number” (*Id.* ¶ 0036). As is apparent, this information disclosed in Fan is a result of a one-time registration, not a list of authorizations that permit the user to selectively enable or disable access to user cellphone location data. The examiner stated “the features ‘permission set’ and ‘list of authorizations’ are not specifically defined therefore information contained in table 28 is considered as ‘permission set’ and ‘list of authorizations’ as claimed”. The amendment to claim 1 specifically sets forth that the permission set and list of authorizations allow a user to selectively enable or disable access to user cellphone location data. Such a feature would frustrate the purpose of the one-time registrations disclosed in Fan, as a user would be required to register and un-register in order to enable or disable access to the location information.

Nishimura likewise does not disclose a permission set and the Examiner does not rely on it for that disclosure. Thus, the combination of Fan and Nishimura does not disclose the elements of independent Claim 1, and Claim 1 is therefore allowable as non-obvious over the prior art.

Because remaining claims 2-31 depend from claim 1, they are also non-obvious for the same reasons. Allowance of all pending claims is respectfully requested.

Closing Remarks

It is submitted that all claims are in condition for allowance, and such allowance is respectfully requested. If prosecution of the application can be expedited by a telephone conference, the Examiner is invited to call the undersigned at the number given below.

Application No.: 14/971,658
Amendment dated: April 15, 2019
Reply to Office Action of February 14, 2019
Attorney Docket No.: BT-007CON

In connection with this matter, please charge any otherwise unpaid fees which may be due, or credit any overpayment, to Deposit Account No. 501798.

Respectfully submitted,

Date: April 15, 2019
Onello & Mello, LLP
3 Burlington Woods Drive, Suite 203
Burlington, MA 01803
Telephone: (617) 994-4900, Ext. 4959
Facsimile: (617) 742-7774
J:\BT\007CON\20190214_FOA\20190214_FOAResponse.docx

/David M. Mello/
David M. Mello
Registration Number 43,799
Attorney for Applicant

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0		
Practitioner Docket No.: BT-007CON	Application No.: 14/971,658	Filing Date: December 16, 2015
First Named Inventor: Edward H. Nortrup	Title: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION	
APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116. 1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (<i>e.g.</i>, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c). 2. The above-identified application contains an outstanding final rejection. 3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect. 4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection. 5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response. 6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web). 7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.] 8. By filing this certification and request, applicant acknowledges the following: • Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0. • The examiner will verify that the AFCP 2.0 submission is compliant, <i>i.e.</i>, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions: ○ The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, by mailing an advisory action. ○ If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview. ▪ The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate. ▪ If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.		
Signature /David M. Mello/	Date April 15, 2019	
Name (Print/Typed) David M. Mello	Practitioner Registration No. 43799	
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.		
☐ * Total of _____ forms are submitted.		

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	35726395
Application Number:	14971658
International Application Number:	
Confirmation Number:	7270
Title of Invention:	METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION
First Named Inventor/Applicant Name:	Edward H. Nortrup
Customer Number:	29344
Filer:	David M. Mello./Kasia Muscarella
Filer Authorized By:	David M. Mello.
Attorney Docket Number:	BT-007 CON
Receipt Date:	15-APR-2019
Filing Date:	16-DEC-2015
Time Stamp:	14:34:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no				
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		20190214_FOAResponse.pdf	691161	yes	9
			eb1e6a4070dfb54ac01611a326aa6046823a271b		

Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Response After Final Action			1	1	
Claims			2	6	
Applicant Arguments/Remarks Made in an Amendment			7	9	
Warnings:					
Information:					
2	After Final Consideration Program Request	AFCP_sb0434.pdf	226705	no	2
			70570c3ed3ec167907454ec4bb0a7c2d8c010d66		
Warnings:					
Information:					
Total Files Size (in bytes):			917866		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270
29344 7590 05/08/2019 ONELLO & MELLO LLP Three Burlington Woods Drive Suite 203 Burlington, MA 01803-4532			EXAMINER NGUYEN, KIM T	
			ART UNIT 2454	PAPER NUMBER
			NOTIFICATION DATE 05/08/2019	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@omiplaw.com
mail@omiplaw.com

Advisory Action Before the Filing of an Appeal Brief	Application No. 14/971,658	Applicant(s) Nortrup, Edward H.	
	Examiner KIM NGUYEN	Art Unit 2454	AIA (FITF) Status No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 15 April 2019 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires ____ months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires ____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because:

a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet (See 37CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicants reply has overcome the following rejection(s): _____

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.

13. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____

14. ☒ Other: PTO-2323 and PTO-413B.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1-31.

Claim(s) withdrawn from consideration: _____.

/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	
---	--

Continuation of 3. NOTE: It raises new issue and more time for further search and consideration are needed. US 2011/0131325, paragraph 0062, may read on amended claim.

Continuation of REQUEST FOR RECONSIDERATION/OTHER 12. Applicant presented new claim amendments in particular for independent claim 1 in the AFCP 2.0 dated 4/15/2019 and presented arguments regarding the newly added features. However, the arguments at this time are moot in light of new prior art that was discovered that are pertinent to applicant's disclosure and it is not clear if there is support for the newly added features in the Applicant's specification and that it can raise the issue of new matter or lack of written description. During the time allotted under the AFCP 2.0 guidelines an updated search was performed and the following is the prior art that was discovered: Piccionelli et al. US 2011/0131325. Based on the newly discovered prior arts; the application is not in condition for allowance at this time and more search time and consideration is needed; further the amendment will not be entered.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments:

Examiner contacted Applicant's representative in response to the AFCP request. The following was notified to the Applicant's representative:

1. During the time allotted under the AFCP 2.0, prior art was discovered that is pertinent to the amendment filed such as Piccionelli et al. US 2011/0131325 when combined with currently cited prior arts.
2. The amendment filed will not be entered, more time for search and consideration is needed to examine the filed amendment, and an advisory will be issued in response.

AFCP 2.0 Decision

Application No.

14/971,658

Applicant(s)

Nortrup, Edward H.

Examiner

KIM NGUYEN

Art Unit

2454

AIA (FITF) Status

No

This is in response to the After Final Consideration Pilot request filed 15 April 2019.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

- ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.
- ☐ A non-broadening amendment to at least one independent claim was not submitted.
- ☐ A proper AFCP 2.0 request was submitted in response to the most recent final rejection.
- ☐ Other: _____

2. **Proper Request**

- A. After final amendment submitted with the request will not be treated under AFCP 2.0.

The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

- ☐ The after final amendment will be treated under pre-pilot procedure.

- B. Updated search and/or completed additional consideration.

The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

- ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.
- ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.
- ☒ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.
- ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.
- ☐ 5. Other: _____

Examiner Note: Please attach an interview summary when necessary as described above.

PATENT

DO NOT ENTER: /K.T.N/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Edward H. Nortrup Examiner: Kim T Nguyen
Serial No.: 14/971,658 Group Art Unit: 2454
Filing Date: December 16, 2015 Confirmation No.: 7270
Title: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME
INFORMATION

Customer No.: 29344

Attorney Docket No.: BT-007CON

CERTIFICATE OF ELECTRONIC SUBMISSION

I hereby certify that this correspondence and any correspondence referred to as being attached or enclosed is being sent by electronic submission to the United States Patent and Trademark Office on the date indicated next to my name.

April 15, 2019
Date

Kasia Muscarella
Kasia Muscarella

Via Electronic Submission

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

Sir:

In response to the pending Final Office Action, mailed February 14, 2019, please amend the above-captioned patent application as follows and consider the remarks provided herein.

A **Listing of Claims** begins on page 2.

Remarks begin on page 7.

Request for Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	14/971,658
	Filing Date	December 16, 2015
	First Named Inventor	Edward H. Nortrup
	Art Unit	2454
	Examiner Name	Kim T Nguyen
	Attorney Docket Number	BT-007CON

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
 Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
 - a. ☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
 - i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
 - ii. ☒ Other Amendment Filed on April 15, 2019
 - b. ☐ Enclosed
 - i. ☐ Amendment/Reply
 - ii. ☐ Affidavit(s)/ Declaration(s)
 - iii. ☐ Information Disclosure Statement (IDS)
 - iv. ☐ Other _____
2. **Miscellaneous**
 - a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
 - b. ☐ Other _____
3. **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
 - a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 501798.
 - i. ☒ RCE fee required under 37 CFR 1.17(e)
 - ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
 - iii. ☐ Other _____
 - b. ☐ Check in the amount of \$ _____ enclosed
 - c. ☐ Payment by credit card (Form PTO-2038 enclosed)
 - d. ☒ Payment by EFS-Web

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED			
Signature	/David M. Mello/	Date	May 14, 2019
Name (Print/Type)	David M. Mello	Registration No.	43799

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being EFS-Web transmitted to the United States Patent and Trademark Office (USPTO), deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the USPTO on the date shown below.	
Signature	/Kasia Muscarella/
Name (Print/Type)	Kasia Muscarella
Date	May 14, 2019

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, a design application, or a patent under reexamination. See 37 CFR 1.114(e).

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:

Request for Suspension of Action:

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 CFR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal - If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal - If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		14971658		
Filing Date:		16-Dec-2015		
Title of Invention:		METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		
First Named Inventor/Applicant Name:		Edward H. Nortrup		
Filer:		David M. Mello/Kasia Muscarella		
Attorney Docket Number:		BT-007 CON		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	650	650
Total in USD (\$)				650

Electronic Acknowledgement Receipt	
EFS ID:	36004591
Application Number:	14971658
International Application Number:	
Confirmation Number:	7270
Title of Invention:	METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION
First Named Inventor/Applicant Name:	Edward H. Nortrup
Customer Number:	29344
Filer:	David M. Mello./Kasia Muscarella
Filer Authorized By:	David M. Mello.
Attorney Docket Number:	BT-007 CON
Receipt Date:	14-MAY-2019
Filing Date:	16-DEC-2015
Time Stamp:	12:46:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$650
RAM confirmation Number	051419INTEFSW12465100
Deposit Account	501798
Authorized User	Kasia Muscarella
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE_Transmittal_sb0030_AsFiled.pdf	2545956 c8d74b53b1d507b7f82a6b67b989cbff21701e23	no	3

Warnings:

This is not a USPTO supplied RCE SB30 form.

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30669 70c765080ac6c34ac672b08f25280067f7f35ef5	no	2
---	----------------------	--------------	---	----	---

Warnings:

Information:

Total Files Size (in bytes):	2576625
------------------------------	---------

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

29344 7590 06/14/2019
ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

EXAMINER

NGUYEN, KIM T

ART UNIT

PAPER NUMBER

2454

DATE MAILED: 06/14/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270

TITLE OF INVENTION: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	09/16/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

29344 7590 06/14/2019

ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270

TITLE OF INVENTION: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	09/16/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, KIM T	2454	709-202000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270
29344	7590	06/14/2019	EXAMINER	
ONELLO & MELLO LLP Three Burlington Woods Drive Suite 203 Burlington, MA 01803-4532			NGUYEN, KIM T	
			ART UNIT	PAPER NUMBER
			2454	
DATE MAILED: 06/14/2019				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/971,658	Applicant(s) Nortrup, Edward H.	
	Examiner KIM NGUYEN	Art Unit 2454	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 5/14/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-31. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	
---	--

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Claims 1-31 are allowed over cited prior art in light of the amendments and the Applicant's arguments of 4/15/2019.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIM NGUYEN whose telephone number is (571)272-4441. The examiner can normally be reached on M-F 8:00AM-4:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Umar Cheema can be reached on (571)270-3037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIM T NGUYEN/
Primary Examiner, Art Unit 2454

Issue Classification 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.	
	Examiner KIM NGUYEN	Art Unit 2454	

CPC						
Symbol					Type	Version
G01C	/	21	/	3694	F	2013-01-01
G01C	/	21	/	3667	I	2013-01-01
G01C	/	21	/	3697	I	2013-01-01
G06Q	/	30	/	0207	I	2013-01-01
G06Q	/	30	/	0266	I	2013-01-01
G06Q	/	30	/	0269	I	2013-01-01
G08G	/	1	/	0112	I	2013-01-01
G08G	/	1	/	0133	I	2013-01-01
G08G	/	1	/	0141	I	2013-01-01
G08G	/	1	/	096741	I	2013-01-01
G08G	/	1	/	096775	I	2013-01-01
G08G	/	1	/	096811	I	2013-01-01
G08G	/	1	/	096883	I	2013-01-01
H04W	/	4	/	12	I	2013-01-01
G08G	/	1	/	0967	I	2013-01-01
G01C	/	21	/	3407	I	2013-01-01
H04W	/	4	/	027	I	2013-01-01
G01S	/	19	/	42	I	2013-01-01
G01S	/	19	/	52	I	2013-01-01
G08G	/	1	/	012	I	2013-01-01
G08G	/	1	/	0129	I	2013-01-01
G08G	/	1	/	052	I	2013-01-01
G08G	/	1	/	091	I	2013-01-01
H04W	/	4	/	046	I	2013-01-01
H04M	/	1	/	72572	A	2013-01-01
H04M	/	1	/	72577	A	2013-01-01
H04M	/	2250	/	10	A	2013-01-01
H04W	/	4	/	02	A	2013-01-01
G06F	/	8	/	60	A	2013-01-01
G06N	/	5	/	022	A	2013-01-01
G06Q	/	10	/	00	A	2013-01-01

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	31	
/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	09 June 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.
	Examiner KIM NGUYEN	Art Unit 2454

CPC						
Symbol					Type	Version
G06Q	/	10	/	06	A	2013-01-01
G06Q	/	30	/	02	A	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version
	/		/			

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	31	
/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	09 June 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.
	Examiner KIM NGUYEN	Art Unit 2454

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G01C	/	21	/ 36
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
709	202

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	31	
/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	09 June 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.
	Examiner KIM NGUYEN	Art Unit 2454

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19		28								
	2		11		20		29								
	3		12		21		30								
	4		13		22		31								
	5		14		23										
	6		15		24										
	7		16		25										
	8		17		26										
	9		18		27										

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 31	
/KIM T NGUYEN/ Primary Examiner, Art Unit 2454 (Primary Examiner) _____ (Date) 09 June 2019		O.G. Print Claim(s) 1	O.G. Print Figure 1

<i>Search Notes</i> 	Application/Control No. 14/971,658	Applicant(s)/Patent Under Reexamination Nortrup, Edward H.
	Examiner KIM NGUYEN	Art Unit 2454

CPC - Searched*		
Symbol	Date	Examiner
G08G1/096811, G08G1/096883, H04M1/72572, H04M1/72577, H04M2250/10, H04W4/02, H04W4/12, G06F8/60, G06N5/022, G06Q10/00, G06Q10/06, G06Q30/02	05/30/2019	KN

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
CPC search with text search	05/30/2019	KN
East search	05/30/2019	KN
Inventor and assignee name search	05/30/2019	KN
NPL (such as IEEE) search	05/30/2019	KN

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Interference search	05/30/2019	KN

/KIM T NGUYEN/ Primary Examiner, Art Unit 2454	
---	--

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S88	64	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 11:23
S89	457791	G01C21/3667. "cpc." or G01C21/3694.cpc. or G01C21/3697.cpc. or G06Q30/0207.cpc. or G06Q30/0266.cpc. or G06Q30/0269.cpc. or G08G1/0112.cpc. or G08G1/0133.cpc. or G08G1/0141.cpc. or G08G1/096741.cpc. or G08G1/096775.cpc. or G08G1/096811.cpc. or G08G1/096883.cpc. or H04M1/72572.cpc. or H04M1/72577.cpc. or H04M2250/10.cpc. or H04W4/02.cpc. or H04W4/12.cpc. or G06F8/60.cpc. or G06N5/022.cpc. or G06Q10/00.cpc. or G06Q10/06.cpc. or G06Q30/02.cpc. or G08G1/0967.cpc. or G01C21/3407.cpc. or H04W4/027.cpc. or H04W4/046.cpc. or G08G1/012.cpc. or G01S19/52.cpc. or G01S19/42.cpc. or G08G1/091.cpc. or G08G1/052.cpc. or G08G1/0129.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 11:23
S90	25	S89 and S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 11:23
S91	2533	(user or driver or client) near14 (initiat\$3 or provid\$3 or start\$3) near14 (permission or permit\$4 authoriz\$5 or allow\$3) near14 (obtain\$3 or receiv\$3 or monitor\$3 or track\$3) near14 (location or position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 13:54
S92	54	S91 and ((cell or mobile) near3 speed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 13:54
S93	5	S92 and (traffic near3 condition)	US-PGPUB;	OR	ON	2019/05/29

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:59
S94	15	(cell or mobile) near14 (communicat\$3 or send\$3 or transmit\$4) near14 server near14 (location or position) near14 (traffic near3 condition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 14:30
S95	64	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location) near8 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/29 15:07
S96	708	(present\$3 or display\$3) near8 (map or route) near8 (proximate\$3 or close\$1) near8 (current location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 09:10
S97	307	S96 and traffic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 09:10
S98	39	S97 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 09:10
S99	194	(intend\$3 near8 (leave time)) near14 travel\$4 near14 destination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 09:34
S100	35	S99 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 09:34
S101	1	("20110131325").PN.	US-PGPUB; USPAT	OR	OFF	2019/05/30 09:38
S110	60	(traffic near3 condition) near14 (base\$1 or depend\$3) near14 ((mobile or cell) near3 (speed or velocity))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/05/30 09:52

			EPO; JPO; DERWENT; IBM_TDB			
S113	137	user near8 select\$5 near8 (enable or permit\$4 or authoriz\$4 or disable or deny\$3 or reject\$3 or register\$4 or un? register\$4) near8 access\$3 near8 (location near5 (information or data))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/05/30 10:12
S114	40	S113 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 10:13
S115	77	(present\$3 or display\$3) near14 (estimat\$3 near3 time near3 arrival) near14 (traffic near3 (condition or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 10:22
S116	238	((adjust\$3 or chang\$3) near8 ((leav\$3 or departure or start\$3 or begin\$4) near5 time)) same (estimat\$3 near5 (travel or (time near3 arrival)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 11:32
S117	38	S116 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 11:32
S118	94	user near8 select\$5 near8 (enable or disable or permit\$4 or authoriz\$4) near8 access\$3 near8 (location near5 (information or data))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/05/30 12:23
S119	26	S118 and @ad<="20040205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/30 12:23
S120	1414	user near14 (enable or disable) near14 access\$3 near14 (location near5 (information or data))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/05/30 12:45
S121	203	S120 and @ad<="20040205"	US-PGPUB; USPAT;	OR	ON	2019/05/30 12:45

EAST Search History

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S122	2	((("BLACKBIRD") near3 ("TECH") near3 ("LLC"))).AS.AANM.	USPAT	OR	ON	2019/05/30 12:57
S123	142	((("NORTRUP") near3 ("Edward"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/30 12:57

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S124	1	((current location) and map and route and destination and speed and (location near8 phone) and (permission set)).clm.	US-PGPUB; USPAT	ADJ	ON	2019/05/30 13:01

5/30/2019 1:03:39 PM

C:\Users\knguyen8\Documents\EAST\Workspaces\14971658a.wsp

Browse ▾

My Settings ▾

Get Help ▾

All ▾

Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')

Advanced Search |
Other Search Options ▾

Search within results ▾

Download PDFs

Per Page: ▢ ▢ ▢

Search History

Displaying results 1-14 of 14 for (((route) AND current location) AND destination) AND traffic condition) ▢

☐ Courses (7)☐ Conferences (5)☐ Journals & Magazines (2)

Show

☐ All Results ☐ My
Subscribed Content ☐
Open Access

Year



Single Year Range

1991 2017

From To

Author



Affiliation



Publication Title



Publisher

Conference
Location☐ Select All on Page

Sort By: ▢

☐ Route selection based on real time traffic condition using Ant Colony
System and fuzzy inference system

Erick Alfons Lisangan ; Sean Coonery Sumarta

2017 3rd International Conference on Science in Information Technology

(ICSITech)

Year: 2017

Pages: 66 - 71

IEEE Conferences

Abstract

(372 Kb)

☐ Dynamic route guidance and interactive transport management with
ALI-SCOUT

R. von Tornkewitsch

IEEE Transactions on Vehicular Technology

Year: 1991 Volume: 40 , Issue: 1

Pages: 45 - 50

Cited by: Papers (14) | Patents (13)

IEEE Journals & Magazines

Abstract

(661 Kb)

☐ GPS Data Based Urban Guidance

Yao Hua Ho ; Yao Chuan Wu ; Meng Chang Chen ; Tsun-Jui Wen ; Yeali S.

Sun

2011 International Conference on Advances in Social Networks Analysis and
Mining

Year: 2011

Pages: 703 - 708

Cited by: Papers (1)

IEEE Conferences

Index Terms



Abstract

(943 Kb)

☐ **Green routing fuel saving opportunity assessment: A case study using large-scale real-world travel data**

Lei Zhu ; Jacob Holden ; Eric Wood ; Jeffrey Gender

2017 IEEE Intelligent Vehicles Symposium (IV)

Year: 2017

Pages: 1242 - 1248

Cited by: Papers (1)

IEEE Conferences

Abstract

(330 Kb)

☐ **On optimizing route discovery of topology-based on-demand routing protocols for ad hoc networks**

Boon-Chong Seet ; Bu-Sung Lee ; Chiew-Tong Lau

Journal of Communications and Networks

Year: 2003 Volume: 5 , issue: 3

Pages: 266 - 274

Cited by: Papers (1)

IEEE Journals & Magazines

Abstract

(949 Kb)

☐ **Research on anticipatory route guidance**

Kari Chen ; S.E. Underwood

Vehicle Navigation and Information Systems Conference, 1991

Year: 1991 Volume: 2

Pages: 427 - 439

Cited by: Papers (81) | Patents (6)

IEEE Conferences

Abstract

(1598 Kb)

☐ **User context recognition for navigation systems in public transportation**

Paul Baumann

2012 IEEE International Conference on Pervasive Computing and Communications Workshops

Year: 2012

Pages: 552 - 553

IEEE Conferences

Abstract

(127 Kb)

Introduction to Optical Fiber Communication Systems

Alan Willner

Year: 2007

IEEE Courses

Abstract

Cloud Data Center Network Construction

LLC Cloud Strategy Partners

Year: 2014

IEEE Courses

Abstract

Network Sniffing

Sean Oriyano

Year: 2016

IEEE Courses

Abstract

**Wireless Sensor Networks and Applications**

Dwight Borses

Year: 2004

IEEE Courses

Abstract

**Introduction to Fiber Optics - The Physical Plant**

Larry Johnson

Year: 2009

IEEE Courses

Abstract

**Introduction to Wireless Ad-hoc Networks**

Kathy Sohrabi

Year: 2006

IEEE Courses

Abstract

**Ethical Hacking: Enumeration**

Sean Oriyano

Year: 2016

IEEE Courses

Abstract

**IEEE Account**

- » Change Username/Password
- » Update Address

Purchase Details

- » Payment Options
- » Order History
- » View Purchased Documents

Profile Information

- » Communications Preferences
- » Profession and Education
- » Technical Interests

Need Help?

- » **US & Canada:** +1 800 678 4333
- » **Worldwide:** +1 732 981 0060
- » Contact & Support

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
© Copyright 2019 IEEE. All rights reserved. Use of this web site signifies your agreement to the terms and conditions.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

29344 7590 06/14/2019
ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

Kasia Muscarella	(Typed or printed name)
<i>Kasia Muscarella</i>	(Signature)
September 6, 2019	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	12/16/2015	Edward H. Nortrup	BT-007 CON	7270

TITLE OF INVENTION: METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	09/16/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, KIM T	2454	709-202000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Onello & Mello, LLP
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

BLACKBIRD TECH LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

BOSTON, MASSACHUSETTS

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 501798

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature *David M. Mello*
Typed or printed name David M. Mello

Date SEP 06 2019
Registration No. 43,799

Electronic Patent Application Fee Transmittal				
Application Number:		14971658		
Filing Date:		16-Dec-2015		
Title of Invention:		METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION		
First Named Inventor/Applicant Name:		Edward H. Nortrup		
Filer:		David M. Mello/Kasia Muscarella		
Attorney Docket Number:		BT-007 CON		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt	
EFS ID:	37086059
Application Number:	14971658
International Application Number:	
Confirmation Number:	7270
Title of Invention:	METHOD AND SYSTEM FOR PROVIDING TRAVEL TIME INFORMATION
First Named Inventor/Applicant Name:	Edward H. Nortrup
Customer Number:	29344
Filer:	David M. Mello./Kasia Muscarella
Filer Authorized By:	David M. Mello.
Attorney Docket Number:	BT-007 CON
Receipt Date:	06-SEP-2019
Filing Date:	16-DEC-2015
Time Stamp:	14:30:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	E201996E30461210
Deposit Account	501798
Authorized User	Kasia Muscarella
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	007CON_IFeeAF.pdf	147630	no	1
			459a01b624f65b19f8d0713b8223a547a9788aec		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30471	no	2
			df06f834c757220a88aa20a0ae6707232bee d1bc		

Warnings:

Information:

Total Files Size (in bytes):			178101
------------------------------	--	--	--------

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/971,658	10/15/2019	10444028	BT-007 CON	7270

29344 7590 09/25/2019
ONELLO & MELLO LLP
Three Burlington Woods Drive
Suite 203
Burlington, MA 01803-4532

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 751 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Edward H. Nortrup, Stoneham, MA;
Blackbird Tech LLC, Boston, MA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.