# IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

JSDQ MESH TECHNOLOGIES LLC,

Plaintiff,

Case No.:

v.

FIRETIDE, INC. and FMC CORPORATION,

JURY TRIAL DEMANDED

Defendants.

# **COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff JSDQ Mesh Technologies LLC complains of Defendants Firetide, Inc. and FMC Corporation as follows:

#### NATURE OF LAWSUIT

1. This is a claim for patent infringement arising under the patent laws of the United States, Title 35 of the United States Code.

## THE PARTIES

- 2. JSDQ Mesh Technologies LLC ("JSDQ") is a Delaware limited liability company with its principal place of business at 401 Lake Avenue, Round Lake Beach, Illinois 60073.
- JSDQ is the named assignee of, owns all right, title and interest in, and has standing to sue for infringement of United States Patent No. 7,916,648, entitled "Method of Call Routing and Connection," which issued on March 29, 2011 (the "648 Patent") (a true and correct copy is attached as Exhibit A); United States Patent No. 7,286,828, entitled "Method of Call Routing and Connection," which issued on October 23, 2007 (the "828 Patent") (a true and correct copy is attached as Exhibit B); United States Reissue Patent No. RE43,675, entitled "Wireless Radio Routing System," which issued on September 18, 2012 (the "675 Patent") (a true and correct copy

is attached as Exhibit C); and United States Reissue Patent No. RE44,607, entitled "Wireless Mesh Routing Method," which issued on November 19, 2013 (the "'607 Patent") (a true and correct copy is attached as Exhibit D) (collectively, the "Patents-in-Suit").

- 4. Defendant Firetide, Inc. ("Firetide") is a Delaware corporation with a listed registered agent of Incorp Services, Inc. located at 1201 Orange Street, Suite 600, One Commerce Center, Wilmington, Delaware 19899.
- 5. Defendant Firetide is a provider of wireless mesh networking solutions and products. Firetide conducts business throughout the United States including Delaware and this Judicial District.
- 6. Defendant FMC Corporation ("FMC") is a Delaware corporation with a listed registered agent of The Corporation Trust Company located at Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801.
- 7. Defendant FMC claims to be one of the world's leading specialty chemical companies. FMC conducts business throughout the United States including Delaware and this Judicial District.

## JURISDICTION AND VENUE

- 8. This Court has exclusive jurisdiction over the subject matter of the Complaint under 28 U.S.C. §§ 1331 and 1338(a).
- 9. Personal jurisdiction over Defendants is proper in this Court. Venue in this judicial district is proper under 28 U.S.C. §§ 1391(b), (c) and/or 1400(b).

#### THE ACCUSED FIRETIDE ROUTING SYSTEMS

10. Defendants infringe the Patents-in-Suit through the manufacture, sale, offer for sale and/or use of Firetide wireless networking products, services and solutions.

- 11. Specifically, Defendant Firetide offers a product portfolio that they claim "enables building a high capacity wireless network that is comparable in performance and reliability to fiber. Firetide Mesh product line, HotPort® series, forms the core of the product offering enabling customers to create a mesh, PTP or PTMP topology over wireless. Firetide product line also includes the HotPoint® wireless access point series, providing cost effective access solutions to complement its mesh backhaul products, an intuitive network management product HotView Pro<sup>TM</sup>."
- 12. According to Firetide, "AutoMesh is Firetide's game-changing technology that enables wireless mesh networks to deliver best-in-class reliability, scalability, flexibility, and security for today's high-performance networks" and "[a]t the heart of all Firetide products is the AutoMesh software platform built from the ground up for video and mobility the cornerstones for today's converged networks. Backed by more than 10 years of innovation and 19 patents to date, AutoMesh delivers the following PRIME technical advantages and customer benefits."
- 13. Firetide's AutoMesh software includes the Firetide Mesh Routing Protocol (FMRP), which Firetide describes as "the force behind AutoMesh's self-healing technology" that "provides a dynamic 'on-demand' routing of the packets based on the network paths available."
- 14. Firetide's AutoMesh software, Firetide Mesh Routing Protocol, and all products that incorporate the same including hardware (e.g., access points, antennas, etc.), software and firmware components are herein referred to as "Accused Firetide Routing Systems."
- 15. Firetide at least indirectly infringes the Patents-in-Suit through the manufacture, sale, offer for sale and/or use of Accused Firetide Routing Systems and other third party components combined therewith.

- 16. On February 19, 2015, counsel for JSDQ wrote a letter to Firetide's Chief Executive Officer and stated that "Firetide's wireless mesh technology is infringing on certain patents within JSDQ's portfolio." That letter specifically identified (and included copies of) each of the Patents-in-Suit and identified Firetide's AutoMesh technology as infringing.
- 17. On March 2, 2015, senior corporate counsel for Firetide responded that Firetide's management team was "presently travelling for business" but that the matter would be discussed with them upon their return.
- 18. Despite follow-up correspondence on March 9, 2015 by counsel for JSDQ, Firetide has yet to respond substantively to the February 19, 2015 correspondence.
- 19. Defendant FMC directly infringes the Patents-in-Suit at least through the use of the Accused Firetide Routing Systems.

# INFRINGEMENT BY DEFENDANT FIRETIDE

## **INFRINGEMENT OF UNITED STATES PATENT NO. 7,916,648**

- 20. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 21. Defendant Firetide at least indirectly infringes at least independent method claims 29 and 36 of the '648 Patent through the manufacture, sale, offer for sale and/or use of the Accused Firetide Routing Systems.

# Claim 29

22. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide a radio communication route among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 29 of the '648 Patent.

- 23. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 29 of the '684 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from one said node and received directly by other said nodes without regard to the relative locations of said nodes of said pair transmitting and receiving said signals;
  - (b) measuring values of a radio parameter of radio signals received by a said node;
  - (c) transmitting from at least two of said nodes radio signals with associated routing messages, wherein said routing message from each of said two nodes identifies a multilink route segment to another said node and includes a value of a radio parameter related to a condition of said route segment;
  - (d) selecting at a said node receiving said radio signals a preferred said multi-link route segment, wherein said selection is based on the measured values of said radio parameter of said received radio signals and the values of said radio parameter included with said routing messages in said received radio signals;
  - (e) transmitting from said selecting node a radio signal with a routing message identifying said selecting node and said preferred route segment; and
  - (f) assembling a radio communication route between an originating node and a destination node, said route being assembled by computers in a plurality of said nodes independently of any computer separate from said nodes in said route, and said route including at least one said preferred multi-link route segment.

- 24. The Accused Firetide Routing Systems, manufactured, sold, offered for sale and/or used by Defendant Firetide, create a radio communications route comprising multiple radio links between a plurality of pairs of nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 36 of the '648 Patent.
- 25. The Accused Firetide Routing Systems, manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 36 of the '684 Patent by:
  - (a) receiving at a said node at least two radio signals including routing messages transmitted from other said nodes, said signals being received at said node directly from said nodes transmitting said signals without regard to the relative locations of said node receiving said signals and said nodes transmitting said signals, wherein said routing message from each said node has content (i) identifying at least one preferred multi-link route segment to another said node, (ii) including the number of said radio links in said route segment, and (iii) including at least one value of a radio parameter of radio signals associated with said radio links in said route segment;
  - (b) measuring at said receiving node values of said radio parameter associated with at least some of said radio signals received by said receiving node;
  - (c) storing at said receiving node said measured values of said radio parameter and said routing messages associated with said measured values;
  - (d) selecting at a said node receiving said routing messages a preferred said route segment, wherein said selection is based on the measured values of said radio parameter of said received radio signals and the stored values of said radio parameter;

- (e) transmitting from said selecting node a routing message identifying said preferred route segment; and
- (f) assembling a radio communication route between an originating node and a destination node.
- 26. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 27. Defendant Firetide had notice of the '648 Patent and the likelihood of infringement at least as early as February 19, 2015, on which date JSDQ provided correspondence identifying the Patents-in-Suit and the likelihood of infringement thereof.
- 28. Upon information and belief, the Accused Firetide Routing Systems are material to practicing the inventions of the '648 Patent, have no substantial non-infringing uses, and are known by Defendant Firetide to be especially made for use in an infringement of the '648 Patent.
- 29. Upon information and belief, Defendant Firetide specifically intended its customers (including Defendant FMC) to directly infringe the '648 Patent (as set forth below) and knew that the customers' acts constituted infringement.
- 30. Defendant Firetide's infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

## **INFRINGEMENT OF UNITED STATES PATENT NO. 7,286,828**

- 31. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 32. Defendant Firetide at least indirectly infringes at least independent method claims 47, 56 and 68 of the '828 Patent through the manufacture, sale, offer for sale and/or use of the Accused Firetide Routing Systems.

- 33. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide a radio communication route among a plurality of individual nodes capable of distribution arbitrarily relative to each other, said nodes being controllable independent of a central computer separate from said nodes, in accordance with the limitations of claim 47 of the '828 Patent.
- 34. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 47 of the '828 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from each said node and received by other said nodes without regard to the relative locations of said nodes of said pair, wherein at least some of said radio signals include associated routing messages including an actual radio parameter of said radio signals;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said radio link using said actual radio parameter of said received radio signals;
  - (d) deleting at least some of said other stored routing messages;
  - (e) modifying said selected routing message;
  - (f) retransmitting said modified routing message; and
  - (g) assembling said preferred radio links into a radio communication route between an originating node and a destination node, said route including plural said radio links.

- 35. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide a radio communication route among a plurality of individual nodes capable of distribution arbitrarily relative to each other, said nodes being controllable independent of a central computer separate from said nodes, in accordance with the limitations of claim 56 of the '828 Patent.
- 36. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 56 of the '828 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from each said node and received by other said nodes without regard to the relative locations of said nodes of said pair, at least some of said radio signals including routing messages;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said radio link using a parameter of said routing messages in said received radio signals;
  - (d) modifying said selected routing message;
  - (e) deleting at least some of said other stored routing messages;
  - (f) retransmitting said modified routing message;
  - (g) assembling said preferred radio links into an optimum radio communication route between an originating node and a destination node, said route including plural said radio links; and

(h) changing said route between said originating node and said destination node only when a condition of the route changes.

- 37. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide a wireless communication route having a plurality of individual routing nodes distributed to form a mesh of said routing nodes throughout an area covered by a wireless communication system, in accordance with the limitations of claim 68 of the '828 Patent.
- 38. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 68 of the '828 Patent by:
  - (a) establishing wireless links between pairs of said routing nodes using wireless signals transmitted from each said routing node and received by other said routing nodes without regard to the relative locations of said routing nodes of said pair, at least some of said wireless signals including routing messages;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said wireless link using a parameter of said received wireless signals;
  - (d) modifying said selected routing message;
  - (e) deleting at least some of said other stored routing messages;
  - (f) retransmitting said modified routing messages; and

- (g) assembling said preferred wireless links into an optimum wireless communication route between a remote routing node and a destination routing node, said route including plural said wireless links.
- 39. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 40. Defendant Firetide had notice of the '828 Patent and the likelihood of infringement at least as early as February 19, 2015, on which date JSDQ provided correspondence identifying the Patents-in-Suit and the likelihood of infringement thereof.
- 41. Upon information and belief, the Accused Firetide Routing Systems are material to practicing the inventions of the '828 Patent, have no substantial non-infringing uses, and are known by Defendant Firetide to be especially made for use in an infringement of the '828 Patent.
- 42. Upon information and belief, Defendant Firetide specifically intended its customers (including Defendant FMC) to directly infringe the '828 Patent (as set forth below) and knew that the customers' acts constituted infringement.
- 43. Defendant Firetide's infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

## INFRINGEMENT OF UNITED STATES REISSUE PATENT NO. RE 43,675

- 44. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 45. Defendant Firetide at least indirectly infringes at least independent method claim 15 of the '675 Patent through the manufacture, sale, offer for sale and/or use of the Accused Firetide Routing Systems in conjunction with directional radio signals.

- 46. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide a radio communication route among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 15 of the '675 Patent.
- 47. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 15 of the '675 Patent by:
  - (a) establishing radio links between respective pairs of said nodes, at least one said node using a directional radio signal transmitted from said node and received directly by another said node without regard to the relative locations of said nodes;
  - (b) measuring a value of a radio parameter of a said directional radio signal received by at least one said node;
  - (c) transmitting from said at least one node a radio signal with an associated routing message based on at least one measured value of the radio parameter; and
  - (d) assembling a radio communication route between an originating node and a destination node, said route being assembled by computers in a plurality of said nodes using routing messages received by said nodes, wherein said computers in said nodes assemble said route independently of any computer separate from said nodes in said route, and said route includes at least one route segment with a said node transmitting a directional radio signal.
- 48. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.

- 49. Defendant Firetide had notice of the '675 Patent and the likelihood of infringement at least as early as February 19, 2015, on which date JSDQ provided correspondence identifying the Patents-in-Suit and the likelihood of infringement thereof.
- 50. Upon information and belief, Defendant Firetide specifically intended its customers (including Defendant FMC) to directly infringe the '675 Patent (as set forth below) and knew that the customers' acts constituted infringement.
- 51. Defendant Firetide's infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

## INFRINGEMENT OF UNITED STATES PATENT REISSUE NO. RE 44,607

- 52. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 53. Defendant Firetide at least indirectly infringes at least independent method claim 3 of the '607 Patent through the manufacture, sale, offer for sale and/or use of the Accused Firetide Routing Systems in conjunction with directional radio signals.

- 54. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, provide at least two radio communication routes among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 3 of the '607 Patent.
- 55. The Accused Firetide Routing Systems, as manufactured, sold, offered for sale and/or used by Defendant Firetide, perform each of the limitations of claim 3 of the '607 Patent by:

- (a) establishing radio links between respective pairs of said nodes using radio signals transmitted from said nodes and received by other said nodes, wherein at least some of said radio signals include routing messages;
- (b) using a directional radio signal transmitted from one said node in a directional link and received directly by the other said node in said directional link;
- (c) measuring a parameter of radio signals received by at least some of said nodes;
- (d) transmitting from at least some of said nodes radio signals with associated routing messages based on said measured parameter; and
- (e) assembling radio communication routes between at least two originating nodes and at least one destination node, wherein computers in a plurality of said nodes use routing messages received by said nodes to assemble said routes independently of any computer separate from said nodes in said routes and without regard to the relative locations of said nodes in a said route, both said routes including at least one said directional link.
- 56. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 57. Defendant Firetide had notice of the '607 Patent and the likelihood of infringement at least as early as February 19, 2015, on which date JSDQ provided correspondence identifying the Patents-in-Suit and the likelihood of infringement thereof.
- 58. Upon information and belief, Defendant Firetide specifically intended its customers (including Defendant FMC) to directly infringe the '607 Patent (as set forth below) and knew that the customers' acts constituted infringement.

59. Defendant Firetide's infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

## INFRINGEMENT BY DEFENDANT FMC

## **INFRINGEMENT OF UNITED STATES PATENT NO. 7,916,648**

- 60. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 61. Defendant FMC directly infringes at least independent method claims 29 and 36 of the '648 Patent through the use of the Accused Firetide Routing Systems.

- 62. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide a radio communication route among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 29 of the '648 Patent.
- 63. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 29 of the '684 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from one said node and received directly by other said nodes without regard to the relative locations of said nodes of said pair transmitting and receiving said signals;
  - (b) measuring values of a radio parameter of radio signals received by a said node;
  - (c) transmitting from at least two of said nodes radio signals with associated routing messages, wherein said routing message from each of said two nodes identifies a multilink route segment to another said node and includes a value of a radio parameter related to a condition of said route segment;

- (d) selecting at a said node receiving said radio signals a preferred said multi-link route segment, wherein said selection is based on the measured values of said radio parameter of said received radio signals and the values of said radio parameter included with said routing messages in said received radio signals;
- (e) transmitting from said selecting node a radio signal with a routing message identifying said selecting node and said preferred route segment; and
- (f) assembling a radio communication route between an originating node and a destination node, said route being assembled by computers in a plurality of said nodes independently of any computer separate from said nodes in said route, and said route including at least one said preferred multi-link route segment.

- 64. The Accused Firetide Routing Systems, as implemented by Defendant FMC, create a radio communications route comprising multiple radio links between a plurality of pairs of nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 36 of the '648 Patent.
- 65. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 36 of the '684 Patent by:
  - (a) receiving at a said node at least two radio signals including routing messages transmitted from other said nodes, said signals being received at said node directly from said nodes transmitting said signals without regard to the relative locations of said node receiving said signals and said nodes transmitting said signals, wherein said routing message from each said node has content (i) identifying at least one preferred multi-link route segment to another said node, (ii) including the number of said radio links in said

route segment, and (iii) including at least one value of a radio parameter of radio signals associated with said radio links in said route segment;

- (b) measuring at said receiving node values of said radio parameter associated with at least some of said radio signals received by said receiving node;
- (c) storing at said receiving node said measured values of said radio parameter and said routing messages associated with said measured values;
- (d) selecting at a said node receiving said routing messages a preferred said route segment, wherein said selection is based on the measured values of said radio parameter of said received radio signals and the stored values of said radio parameter;
- (e) transmitting from said selecting node a routing message identifying said preferred route segment; and
- (f) assembling a radio communication route between an originating node and a destination node.
- 66. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 67. Defendant FMC's direct infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

#### **INFRINGEMENT OF UNITED STATES PATENT NO. 7,286,828**

- 68. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 69. Defendant FMC directly infringes at least independent method claims 47, 56 and 68 of the '828 Patent through the use of the Accused Firetide Routing Systems.

- 70. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide a radio communication route among a plurality of individual nodes capable of distribution arbitrarily relative to each other, said nodes being controllable independent of a central computer separate from said nodes, in accordance with the limitations of claim 47 of the '828 Patent.
- 71. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 47 of the '828 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from each said node and received by other said nodes without regard to the relative locations of said nodes of said pair, wherein at least some of said radio signals include associated routing messages including an actual radio parameter of said radio signals;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said radio link using said actual radio parameter of said received radio signals;
  - (d) deleting at least some of said other stored routing messages;
  - (e) modifying said selected routing message;
  - (f) retransmitting said modified routing message; and
  - (g) assembling said preferred radio links into a radio communication route between an originating node and a destination node, said route including plural said radio links.

#### Claim 56

72. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide a radio communication route among a plurality of individual nodes capable of distribution

arbitrarily relative to each other, said nodes being controllable independent of a central computer separate from said nodes, in accordance with the limitations of claim 56 of the '828 Patent.

- 73. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 56 of the '828 Patent by:
  - (a) establishing radio links between pairs of said nodes using radio signals transmitted from each said node and received by other said nodes without regard to the relative locations of said nodes of said pair, at least some of said radio signals including routing messages;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said radio link using a parameter of said routing messages in said received radio signals;
  - (d) modifying said selected routing message;
  - (e) deleting at least some of said other stored routing messages;
  - (f) retransmitting said modified routing message;
  - (g) assembling said preferred radio links into an optimum radio communication route between an originating node and a destination node, said route including plural said radio links; and
  - (h) changing said route between said originating node and said destination node only when a condition of the route changes.

## Claim 68

74. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide a wireless communication route having a plurality of individual routing nodes distributed

to form a mesh of said routing nodes throughout an area covered by a wireless communication system, in accordance with the limitations of claim 68 of the '828 Patent.

- 75. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 68 of the '828 Patent by:
  - (a) establishing wireless links between pairs of said routing nodes using wireless signals transmitted from each said routing node and received by other said routing nodes without regard to the relative locations of said routing nodes of said pair, at least some of said wireless signals including routing messages;
  - (b) storing said routing messages received by each said node;
  - (c) selecting a said routing message associated with a preferred said wireless link using a parameter of said received wireless signals;
  - (d) modifying said selected routing message;
  - (e) deleting at least some of said other stored routing messages;
  - (f) retransmitting said modified routing messages; and
  - (g) assembling said preferred wireless links into an optimum wireless communication route between a remote routing node and a destination routing node, said route including plural said wireless links.
- 76. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 77. Defendant FMC's direct infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

# INFRINGEMENT OF UNITED STATES REISSUE PATENT NO. RE 43,675

- 78. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 79. Defendant FMC directly infringes at least independent method claim 15 of the '675 Patent through the use of the Accused Firetide Routing Systems in conjunction with directional radio signals.

- 80. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide a radio communication route among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 15 of the '675 Patent.
- 81. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 15 of the '675 Patent by:
  - (a) establishing radio links between respective pairs of said nodes, at least one said node using a directional radio signal transmitted from said node and received directly by another said node without regard to the relative locations of said nodes;
  - (b) measuring a value of a radio parameter of a said directional radio signal received by at least one said node;
  - (c) transmitting from said at least one node a radio signal with an associated routing message based on at least one measured value of the radio parameter; and
  - (d) assembling a radio communication route between an originating node and a destination node, said route being assembled by computers in a plurality of said nodes using routing messages received by said nodes, wherein said computers in said nodes assemble said route independently of any computer separate from said nodes in said route,

and said route includes at least one route segment with a said node transmitting a directional radio signal.

- 82. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 83. Defendant FMC's direct infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

# INFRINGEMENT OF UNITED STATES PATENT REISSUE NO. RE 44,607

- 84. JSDQ realleges and incorporates by reference paragraphs 1 through 19, inclusive, as though fully set forth herein.
- 85. Defendant FMC directly infringes at least independent method claim 3 of the '607 Patent through the use of the Accused Firetide Routing Systems in conjunction with directional radio signals.

- 86. The Accused Firetide Routing Systems, as implemented by Defendant FMC, provide at least two radio communication routes among individual nodes capable of distribution arbitrarily relative to each other, in accordance with the limitations of claim 3 of the '607 Patent.
- 87. The Accused Firetide Routing Systems, as implemented by Defendant FMC, perform each of the limitations of claim 3 of the '607 Patent by:
  - (a) establishing radio links between respective pairs of said nodes using radio signals transmitted from said nodes and received by other said nodes, wherein at least some of said radio signals include routing messages;

- (b) using a directional radio signal transmitted from one said node in a directional link and received directly by the other said node in said directional link;
- (c) measuring a parameter of radio signals received by at least some of said nodes;
- (d) transmitting from at least some of said nodes radio signals with associated routing messages based on said measured parameter; and
- (e) assembling radio communication routes between at least two originating nodes and at least one destination node, wherein computers in a plurality of said nodes use routing messages received by said nodes to assemble said routes independently of any computer separate from said nodes in said routes and without regard to the relative locations of said nodes in a said route, both said routes including at least one said directional link.
- 88. To the extent required by law, JSDQ has complied with the provisions of 35 U.S.C. § 287.
- 89. Defendant FMC's direct infringement as described above has injured and will continue to injure JSDQ as long as such infringement continues. JSDQ is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty.

#### PRAYER FOR RELIEF

WHEREFORE, Plaintiff JSDQ Mesh Technologies LLC respectfully requests this Court to enter judgment against Defendant Firetide, Inc. and Defendant FMC Corporation – and against each of their subsidiaries, successors, parents, affiliates, officers, directors, agents, servants, employees, and all persons in active concert or participation with them – granting the following relief:

A. The entry of judgment in favor of Plaintiff and against Defendants;

- B. An award of damages against Defendants (jointly and severally) adequate to compensate Plaintiff for the infringement that has occurred, but in no event less than a reasonable royalty as permitted by 35 U.S.C. § 284, together with prejudgment interest from the date the infringement began;
- C. A finding that this case is exceptional and an award to Plaintiff of its reasonable attorneys' fees and costs as provided by 35 U.S.C. § 285;
- D. A permanent injunction prohibiting further infringement of the asserted patents; and
- E. Such other relief to which Plaintiff is entitled under the law and any other and further relief that this Court or a jury may deem just and proper.

#### **JURY DEMAND**

Plaintiff demands a trial on all issues presented in this Complaint.

Respectfully submitted, Dated: April 28, 2015

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