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(71) Applicant (for all designated States except US): **INTER-DIGITAL TECHNOLOGY CORPORATION** [US/US];
300 Delaware Avenue, Suite 527, Wilmington, Delaware
19801 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROY, Vincent**

[CA/CA]; 6254 De La Roche, Montreal, Québec H2S 2E1 (CA). **LU, Guang** [CA/CA]; 2525 Cavendish Blvd., Apt. 934, Montreal, Québec H4B 2Y6 (CA). **ZAKI, Maged** [CA/CA]; 9260 Ceres, Apt. 202, Pierrefonds, Québec H8Y 3N5 (CA). **TOMICI, John, L.** [US/US]; 1530 Wells Avenue, Southold, New York 11971 (US).

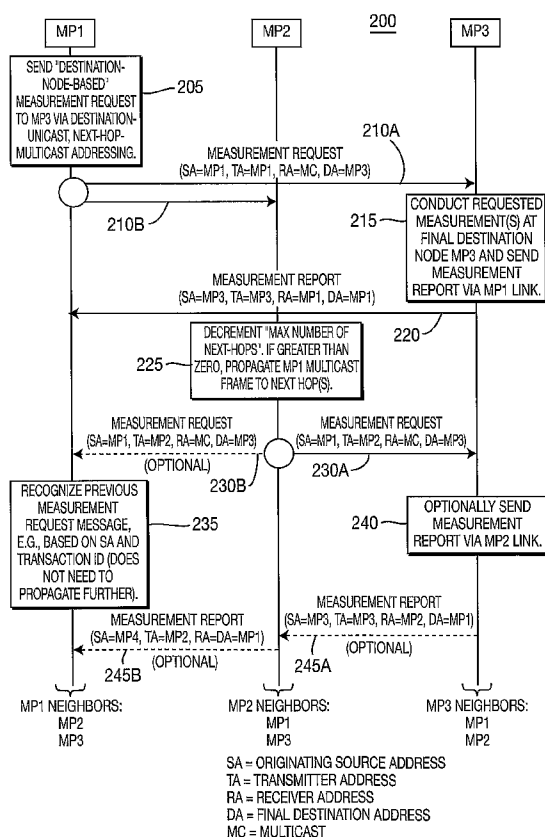
(74) Agent: **BALLARINI, Robert, J.**, Volpe and Koenig, P.C., United Plaza, Suite 1600, 30 South 17th Street, Philadelphia, Pennsylvania 19103 (US).

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(54) Title: MULTI-NODE COMMUNICATION SYSTEM AND METHOD OF REQUESTING, REPORTING AND COLLECTING DESTINATION-NODE-BASED MEASUREMENTS AND ROUTE-BASED MEASUREMENTS



(57) Abstract: A multi-node communication system and method used to request, report and collect destination-node-based measurements and route-based measurements is disclosed. The communication system may be a mesh network including a plurality of mesh points (MPs). In one embodiment, a destination-node-based measurement request is sent to one or more destination nodes via destination-unicast, destination-multicast, or destination-broadcast, using routes specified via next-hop-unicast, next-hop-multicast, or next-hop-broadcast addressing. In another embodiment, a source node sends a measurement request message to a final destination node, whereby each node along the route individually sends a measurement report message to the source node. Alternatively, measurement results of each node are combined and appended to the measurement request message, and a measurement report message including the combined measurement results is sent to the source node.

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