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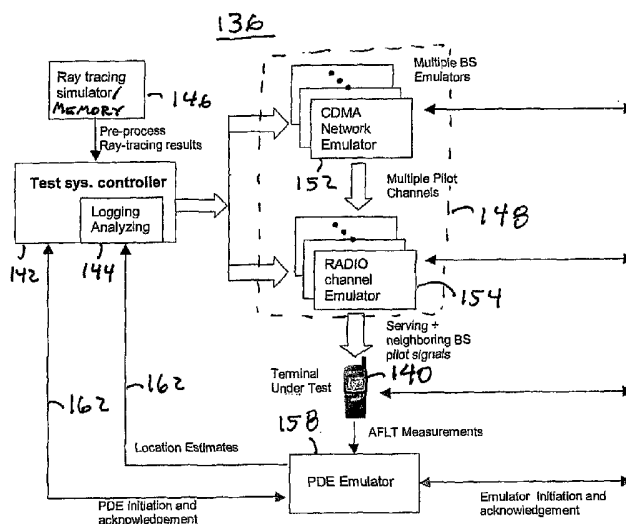
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- (71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 ESPOO (FI).
- (71) Applicant (for LC only): **NOKIA, INC.** [US/US]; 6000 Connection Drive, Irving, TX 75039 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GREEN, Marilyn**, P. [US/US]; 1581 Route 202, #124, Pomona, NY 10970

[Continued on next page]

(54) Title: APPARATUS, AND ASSOCIATED METHOD, FOR TESTING A MOBILE TERMINAL IN TEST CONDITIONS THAT EMULATE AN OPERATING ENVIRONMENT



(57) Abstract: An emulating system comprising a network emulator (152) for emulating multiple test signals. Each test signal is associated with a communication channel of a base transceiver station having geographic coordinates within the specific geographic area. A channel emulator (154) for processing each test signal using simulation data and generating a channel response signal for each test signal indicating the effect of the simulation data. Wherein the simulation data comprises interference parameters that represent reflective, diffractive, path loss, diffusive and Doppler effect properties created by selectable obstructions over a selectable distance D between the mobile device and the base transceiver station and the vector summation of these properties. A position detection emulator (158) for calculating positional coordinates based on each channel signal generated and the geographic coordinates of each base transceiver station.

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A. CLASSIFICATION OF SUBJECT MATTER

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 US CL : 375/224; 724/712; 370/241

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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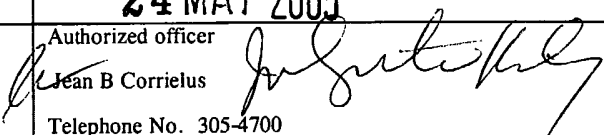
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EAST: emulat\$4, environment, device under test, DUT, network emulator, position detection emulator

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,831,996 A (ABRAMOVICI et al) 03 November 1998, see entire document	1-20
A	US 5,953,516 A (BONOLA) 14 September 1999. See entire document.	1-20
A	US 5,717,903 A (BONOLA) 10 February 1998. See entire document.	1-20
A	US 2002/0016937 A1 (HOUH) 07 February 2002. See entire document.	1-20
A	US 2002/0016708 A1 (HOUH) 07 February 2002. See entire document.	1-20
A	US 2002/0015387 A1 (HOUH) 07 February 2002. See entire document.	1-20

Further documents are listed in the continuation of Box C. See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer  Jean B Corrielus Telephone No. 305-4700