



complete language of any unasserted claims from which these asserted claims depend.

Appendix B contains the parties' proposed constructions for the disputed terms.

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Respectfully submitted,

/s/ Melissa Smith

Melissa Smith  
Gilliam & Smith LLP  
303 South Washington Avenue  
Marshall, TX 75670  
melissa@gilliamsmithlaw.com  
(903) 934-9257

Douglas E. Lumish  
Doug.Lumish@lw.com  
Jeffrey G. Homrig  
Jeff.Homrig@lw.com  
S. Giri Pathmanaban  
Giri.Pathmanaban@lw.com  
Lisa Nguyen  
lisa.nguyen@lw.com  
Yasamin Parsafar  
yasamin.parsafar@lw.com  
LATHAM & WATKINS LLP  
140 Scott Drive  
Menlo Park, CA 94025  
(650) 328-4600  
(650) 463-2600

Allison K. Harms, Pro Hac Vice  
Allison.Harms@lw.com  
Blake R. Davis  
blake.davis@lw.com  
LATHAM & WATKINS LLP  
505 Montgomery St., Suite 2000  
San Francisco, CA 94111  
(415) 391-0600  
(415) 395-8095

Cassius K. Sims  
NY State Bar No. 4910469  
Cassius.Sims@lw.com  
LATHAM & WATKINS LLP  
885 Third Avenue

/s/ Demetrios Anaipakos

Demetrios Anaipakos  
Texas Bar No. 00793258  
danaipakos@azalaw.com  
Amir Alavi  
Texas Bar No. 00793239  
aalavi@azalaw.com  
Brian E. Simmons  
Texas Bar No. 24004922  
bsimmons@azalaw.com  
Masood Anjom  
Texas Bar No. 24055107  
manjom@azalaw.com  
Michael McBride  
Texas Bar No. 24065700  
mmcbride@azalaw.com  
Kyril Talanov  
Texas Bar No. 24075139  
ktalanov@azalaw.com  
Jamie Aycock  
Texas Bar No. 24050241  
jaycock@azalaw.com  
Scott W. Clark  
Texas Bar No. 24007003  
sclark@azalaw.com  
Alisa A. Lipski  
Texas Bar No. 24041345  
alipski@azalaw.com  
Weining Bai  
Texas Bar No. 24101477  
wbai@azalaw.com  
Justin Chen  
Texas Bar No. 24074024  
jchen@azalaw.com  
AHMAD, ZAVITSANOS, ANAIPAKOS, ALAVI  
& MENSING P.C.  
1221 McKinney Street, Suite 2500  
Houston, TX 77010  
Telephone: 713-655-1101  
Facsimile: 713-655-0062

New York, NY 10022  
(212) 906-1200  
(212) 751-4864

James R. Bender  
DC State Bar No. 1004382  
james.bender@lw.com  
LATHAM & WATKINS LLP  
555 Eleventh St. NW Washington, D.C. 20004-  
1304  
Telephone: (202) 637-2200  
Facsimile: (202) 637-2201

**ATTORNEYS FOR DEFENDANT APPLE  
INC.**

/s/ Brett Christopher Govett  
Brett Christopher Govett  
Norton Rose Fulbright US LLP  
2200 Ross Avenue  
Suite 2800  
Dallas, TX 75201  
214/855-8118  
Fax: 12148558200  
brett.govett@nortonrosefulbright.com

Daniel S Leventhal  
Norton Rose Fulbright US LLP - Houston  
Fulbright Tower  
1301 McKinney, Suite 5100  
Houston, TX 77010-3095  
713-651-5151  
Fax: 713-651-5246  
daniel.leventhal@nortonrosefulbright.com

Talbot R. Hansum  
State Bar No. 24084586  
James Warriner  
State Bar No. 24070813  
Norton Rose Fulbright US LLP  
98 San Jacinto Boulevard, Suite 1100  
Austin, TX 78701

Andrea L. Fair  
State Bar No. 24078488  
andrea@wsfirm.com  
Claire Abernathy Henry  
State Bar No. 24053063  
claire@wsfirm.com  
Wesley Hill  
State Bar No. 24032294  
wh@wsfirm.com  
WARD, SMITH & HILL, PLLC  
P.O. Box 1231  
Longview, Texas 75606-1231  
(903) 757-6400 (telephone)  
(903) 757-2323 (facsimile)

**ATTORNEYS FOR PLAINTIFF SAINT  
LAWRENCE COMMUNICATIONS  
LLC**

/s/ Kevin P. Anderson  
Michael E Jones  
Potter Minton, a Professional Corporation  
110 N College Avenue  
Suite 500  
Tyler, TX 75702  
903-597-8311  
Fax: 903-593-0846  
mikejones@potterminton.com

Kevin P. Anderson  
kanderson@wileyrein.com  
Floyd B. Chapman  
fchapman@wileyrein.com  
WILEY REIN LLP  
1776 K Street, NW  
Washington, D.C. 20006  
Tel: 202.719.7000  
Fax: 202.719.7049

**ATTORNEYS FOR DEFENDANT  
CELLCO PARTNERSHIP d/b/a  
VERIZON WIRELESS.**

Tel: 512.536.3083  
Fax: 512.536.4598  
talbot.hansum@nortonrosefulbright.com  
jim.warriner@nortonrosefulbright.com

**ATTORNEYS FOR DEFENDANT AT&T  
MOBILITY LLC**

**CERTIFICATE OF SERVICE**

The undersigned hereby certifies that all counsel of record who are deemed to have consented to electronic service are being served with a copy of this document via the Court's CM/ECF system per Local Rule CV-5(a)(3) on January 18, 2017.

*/s/ Melissa R. Smith* \_\_\_\_\_

Melissa R. Smith

APPENDIX A

U.S. Patent Number 6,795,805

1. A device for enhancing periodicity of an excitation signal produced in relation to a pitch codevector and an innovative codevector for supplying a signal synthesis filter in view of synthesizing a wideband speech signal, said periodicity enhancing device comprising:

- a) a factor generator for calculating a periodicity factor related to the **wideband speech signal**; and
- b) an innovation filter for filtering the innovative codevector in relation to said periodicity factor to thereby reduce energy of a **low frequency portion** of the innovative codevector and enhance periodicity of a **low frequency portion** of the excitation signal.

11. A method for enhancing periodicity of an excitation signal produced in relation to a pitch codevector and an innovative codevector for supplying a signal synthesis filter in view of synthesizing a wideband speech signal, said periodicity enhancing method comprising:

- a) calculating a periodicity factor related to the **wideband speech signal**; and
- b) filtering the innovative codevector in relation to said periodicity factor to thereby reduce energy of a low frequency portion of the innovative codevector and enhance periodicity of a low frequency portion of the excitation signal.

21. A decoder for producing a **synthesized wideband speech signal**, comprising:

- a) a signal fragmenting device for receiving an encoded **wideband speech signal** and extracting from said encoded **wideband speech signal** at least pitch codebook parameters, innovative codebook parameters, and synthesis filter coefficients;
- b) an pitch codebook responsive to said pitch codebook parameters for producing a pitch codevector;
- c) an innovative codebook responsive to said innovative codebook parameters for producing an innovative codevector;
- d) a periodicity enhancing device as recited in claim 1 comprising said factor generator for calculating a periodicity factor related to the **wideband speech signal**, and said innovation filter for filtering the innovative codevector;
- e) a combiner circuit for combining said pitch codevector and said innovative codevector filtered by said innovation filter to thereby produce said periodicity enhanced excitation signal; and
- f) a signal synthesis filter for filtering said periodicity enhanced excitation signal in relation to said synthesis filter coefficients to thereby produce said **synthesized wideband speech signal**.

22. A decoder for producing a **synthesized wideband speech signal** as defined in claim 21, wherein said factor generator comprises a means for calculating a periodicity factor in response to the pitch codevector and the innovative codevector.

23. A decoder for producing a **synthesized wideband speech signal** as defined in claim 21, wherein said innovation filter has a transfer function of the form:

$$F(z) = -\alpha z + 1 - \alpha z^{-1}$$

where  $\alpha$  is a periodicity factor derived from a level of periodicity of the excitation signal.

26. A decoder for producing a **synthesized wideband speech signal** as defined in claim 23, wherein said factor generator comprises a means for calculating said periodicity factor  $\alpha$  using the relation:

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