United States District Court, S.D. California.

QUALCOMM INCORPORATED,

Plaintiff. v. CONEXANT SYSTEMS, INC and Skyworks Solutions, Inc, Defendants.

No. 02CV2002-B(JFS)

Dec. 2, 2004.

James R. Batchelder, Day Casebeer Madrid and Batchelder, Cupertino, CA, for Plaintiff.

Amy K. Wigmore, Gregory S. Discher, James L. Quarles, III, Kyle M. Deyoung, Leon B. Greenfield, Nina S. Tallon, Wilmer Cutler Pickering Hale and Dorr, Washington, DC, Donald R. Steinberg, Merriann M. Panarella, Michael A. Diener, William F. Lee, Wilmer Cutler Pickering Hale and Dorr, Boston, MA, Kerry A. Malloy, S. Calvin Walden, Hale and Dorr, New York, NY, Maria Kathleen Vento, Wilmer Cutler Pickering Hale and Dorr LLP, Palo Alto, CA, Robert S. Brewer, Jr., McKenna Long and Aldridge, San Diego, CA, for Defendants.

ORDER CONSTRUING CLAIMS FOR UNITED STATES PATENT NUMBER 5,590,408

RUDI M. BREWSTER, Senior District Judge.

Plaintiff, Qualcomm, Inc. has brought suit against Defendants, Conexant Systems, Inc. and Skyworks Solutions, Inc., for infringement of United States Patent number 5,590,408 (the "'408 Patent"). Pursuant to Markman v. Westview Instruments, 52 F.3d 967 (Fed.Cir.1995), the Court conducted a hearing on August 16-19 and October 4-7 and 13-14, 2004 to construe the disputed claim terms of the '408 Patent. FN1 At the hearing, Qualcomm was represented by the law firm of Day, Casebeer, Madrid & Batchelder, and Conexant and Skyworks were represented by the firm of Wilmer, Cutler, Pickering and Dorr.

FN1. The disputed claims of the '408 Patent are claims 1, 5 and 6.

The Court, with the assistance of the parties, interpreted the pertinent terms for all claim terms at issue in the '408 Patent. Additionally, a "Glossary" was prepared for terms found in the '408 Patent, that were considered to be technical in nature and which a jury of laypersons might not understand without a specific definition. As the case advances, the parties may request additional terms to be added to the glossary as may seem helpful to the jury.

After careful consideration of the parties' arguments and the applicable law, the Court **HEREBY CONSTRUES** all disputed claim terms in the '408 Patent, attached as Exhibit A. Further, the Court **HEREBY DEFINES** all pertinent technical terms as written in Exhibit B, attached hereto.

IT IS SO ORDERED

EXHIBIT A-UNITED STATES PATENT NUMBER 5,590,408-CLAIM CHART

| VERBATIM CLAIM | COURT'S CLAIM CONSTRUCTION |
|---|--|
| LANGUAGE | |
| Claim 1 | Claim 1 |
| A method for limiting transmit power of a radio operating in a radio | A method for limiting transmit power of a radio [level of power transmitted by the radio] operating in a radio communications system [a system of wireless telecommunications by means of radio waves] , the radio communications system comprising at least one base station [in a wireless |
| radio communications system, the comprising at least one base | communications system, any fixed station that communicates with mobile stations] that transmits signals including power control commands |
| station that transmits signals including power control commands to the radio, the | [commands from the base station instructing the radio to turn up or turn down power] to the radio, the radio comprising a variable gain amplifier [a unidirectional device that is capable of enlarging the waveform supplied |
| radio comprising a variable gain amplifier and a maximum gain setting, the | to it, where the enlargement can be changed over a range, either continuously or in incremental steps] and a maximum gain setting [upper limit on the gain setting], the method comprising the steps of: |
| method comprising the steps of: | determining an open loop newer control value [the value of the automatic |
| power control value in response to a signal received from the at least one base station; | gain control setpoint (the setpoint generated by a control circuit that is used for automatically changing the gain of a receiver or transmitter)] in response to a signal received from the at least one base station [in a wireless communications system, any fixed station that communicates with mobile stations]: |
| determining a gain adjust signal in response to the transmitted power control commands; | determining a gain adjust signal [a signal that can be used to change the gain of the variable gain amplifier] in response to the transmitted power control commands [commands from the base station instructing the radio to turn up or turn down power]; |
| combining the open loop power control value and the gain adjust signal to produce a summation signal; | combining the open loop power control value [the value of the automatic gain control setpoint (the setpoint generated by a control circuit that is used for automatically changing the gain of a receiver or transmitter)] and the gain adjust signal [a signal that can be used to change the gain of |
| | the variable gain amplifier] to produce a summation signal [a signal that represents the sum of two or more other signals]; |
| comparing the summation signal to the maximum gain setting; | comparing the summation signal to the maximum gain setting [upper limit on the gain setting]; |
| If the summation signal is greater than or equal to the maximum gain setting, adjusting the variable gain | If the summation signal is greater than or equal to the maximum gain setting [upper limit on the gain setting], adjusting the variable gain amplifier in response to the maximum gain setting; and |
| amplifier in response to the maximum gain setting; and if the summation signal is | if the summation signal is less than the maximum gain setting, adjusting the |
| less than the maximum gain setting, adjusting the variable gain amplifier in response to the summation signal. | variable gain amplifier in response to the summation signal. |
| Claim 5 | Claim 5 |
| A method for limiting transmit power of a radio | A method for limiting transmit power of a radio [level of power transmitted by the radio] operating in a cellular environment [a system of |

| operating in a cellular | wireless communications by means of radio wayos] the cellular |
|----------------------------------|---|
| operating in a central | any irrespondent comprising a plurelity [two or more] of cells [cell means of |
| environment, the centuar | environment comprising a pluranty [two or more] of cens [cen means a |
| environment comprising a | base station (in a wireless communications system, any fixed station that |
| plurality of cells that transmit | communicates with mobile stations) and the geographic area defined by |
| power control commands to | its transmission range] that transmit power control commands [commands |
| the radio, the radio | from the base station instructing the radio to turn up or turn down |
| comprising a variable gain | power] to the radio, the radio comprising a variable gain amplifier, a |
| amplifier, a maximum gain | maximum gain setting [upper limit on the gain setting], and a power |
| setting, and a power limiting | limiting accumulator [a device that accumulates a sum that can be used |
| accumulator, the method | for limiting the transmit power of a radio], the method comprising |
| comprising the steps of: | [including but not limited to] the steps of: |
| the variable gain amplifier | the variable gain amplifier [a unidirectional device that is capable of |
| transmitting a signal; | enlarging the waveform supplied to it, where the enlargement can be |
| | changed over a range, either continuously or in incremental steps] |
| | transmitting a signal; |
| determining a gain adjust | determining a gain adjust signal [a signal that can be used to change the |
| signal in response to the | gain of the variable gain amplifier] in response to the transmitted power |
| transmitted power control | control commands [commands from the base station instructing the radio |
| commands; | to turn up or turn down power]; |
| detecting a power value of | detecting a power value of the transmitted signal [a power level of the |
| the transmitted signal; | transmitted signal just before the transmitted signal leaves the radio]; |
| digitizing the power value; | digitizing [converting an analog signal to a digital signal] the power value; |
| comparing the digitized | comparing the digitized power value to the maximum gain setting [upper |
| power value to the maximum | limit on the gain setting]; |
| gain setting; | |
| if the digitized power value is | if the digitized power value is greater than the maximum gain setting [upper |
| greater than the maximum | limit on the gain setting, decreasing the gain of the variable gain amplifier: |
| gain setting, decreasing the | and |
| gain of the variable gain | |
| amplifier: and | |
| if the digitized power value is | if the digitized power value is greater than the maximum gain setting [upper |
| greater than the maximum | limit on the gain setting], prohibiting the gain adjust signal [a signal that |
| gain setting prohibiting the | can be used to change the gain of the variable gain amplifier from |
| gain adjust signal from | increasing in response to the transmitted nower control commands |
| increasing in response to the | commands from the base station instructing the radio to turn up or turn |
| transmitted power control | down nower |
| commands | down bower]: |
| Claim 6 | Claim 6 |
| A method for limiting | A method for limiting transmit nower of a radio [level of nower |
| transmit power of a radio | transmitted by the radio operating in a callular environment [a system of |
| operating in a cellular | wireless communications by means of radio wayes] the cellular |
| environment the cellular | environment comprising a plurality of calls [call magns a base station (in a |
| environment comprising a | wireless communications system any fixed station that communicates |
| nurality of cells that transmit | with mobile stations) and the geographic area defined by its transmission |
| power control commands to | ranged that transmit nower control commands [commands from the base |
| the radio the radio | station instructing the radio to turn up or turn down nower to the radio |
| comprising a variable gain | the radio comprising a variable gain amplifier [a unidirectional device that |
| amplifier a maximum gain | is canable of enlarging the waveform supplied to it where the |
| setting and a power control | enlargement can be changed over a range either continuously or in |
| command accumulator that | incremental steps] a maximum gain setting and a nower control command |
| generates a gain adjust | accumulator [a device which maintains the sum of nower control values] |
| Benerates a gain aujust | accumulator [a active which maintains the sum of power control values] |

| signal, the method comprising the steps of: | that generates a gain adjust signal, the method comprising the steps of: |
|---|--|
| the variable gain amplifier transmitting a signal; | the variable gain amplifier [a unidirectional device that is capable of enlarging the waveform supplied to it, where the enlargement can be changed over a range, either continuously or in incremental steps] transmitting a signal; |
| determining the gain adjust signal in response to the transmitted power control commands; | determining the gain adjust signal [a signal that can be used to change the gain of the variable gain amplifier] in response to the transmitted power control commands [commands from the base station instructing the radio to turn up or turn down power]; |
| detecting a power value of the transmitted signal; | detecting a power value of the transmitted signal [a power level of the transmitted signal just before the transmitted signal leaves the radio]; |
| digitizing the power value; | digitizing [converting an analog signal to a digital signal] the power value; |
| comparing the digitized power value to the maximum gain setting; if the digitized power value is greater than the maximum gain setting, decreasing the gain adjust signal by a predetermined amount for every predetermined unit of | comparing the digitized power value to the maximum gain setting [upper limit on the gain setting]; if the digitized power value is greater than the maximum gain setting, decreasing the gain adjust signal by a predetermined amount for every predetermined unit of time until the gain adjust signal is less than the maximum gain setting; and |
| time until the gain adjust signal is less than the maximum gain setting; and if the digitized power value is less than or equal to the maximum gain | if the digitized power value is less than or equal to the maximum gain setting, varying the gain of the variable gain amplifier in response to the gain adjust signal. |
| setting, varying the gain of the variable gain amplifier in response to the gain adjust signal. | |

EXHIBIT B-GLOSSARY RE: UNITED STATES PATENT NUMBER 5.590.408

| TERM | DEFINITION |
|----------------------|--|
| Base station | In a wireless communications system, any fixed station that communicates with |
| | mobile stations |
| Cells | Cell means a base station (in a wireless communications system, any fixed station that |
| | communicates with mobile stations) and the geographic area defined by its |
| | transmission range |
| Cellular environment | A system of wireless communications by means of radio waves |
| Comprising | Including but not limited to |
| Digitizing | Converting an analog signal to a digital signal |
| Gain | The ratio of output signal power to input signal power |
| Gain adjust signal | A signal that can be used to change the gain of the variable gain amplifier |
| Maximum gain | Upper limit on the gain setting |
| setting | |
| Open loop power | The value of the automatic gain control setpoint |
| control value | |
| Plurality | Two or more |

| Power control command accumulator | A device which maintains the sum of power control values |
|---|--|
| Power control commands | Commands from the base station instructing the radio to turn up or turn down power |
| Power control value | The value of the automatic gain control setpoint (the setpoint generated by a control circuit that is used for automatically changing the gain of a receiver or transmitter) |
| Power limiting accumulator | A device that accumulates a sum that can be used for limiting the transmit power of a radio |
| A power value of the transmitted signal | A power level of the transmitted signal just before the transmitted signal leaves the radio |
| Radio | A transmitter, receiver, or transceiver used for communication via electromagnetic waves |
| Radio communications system | A system of wireless telecommunications by means of radio waves |
| Summation signal | A signal that represents the sum of two or more other signals |
| Transmit power of a radio | Level of the power transmitted by the radio |
| Variable gain amplifier | A unidirectional device that is capable of enlarging the waveform supplied to it, where the enlargement can be changed over a range, either continuously or in incremental steps |

S.D.Cal.,2004. Qualcomm Inc. v. Conexant Systems, Inc.

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