United States District Court, S.D. California.

QUALCOMM INCORPORATED,

Plaintiff.

v.

MAXIM INTEGRATED PRODUCTS, INC,

Defendants.

No. 02CV2429-B(JFS)

Dec. 2, 2004.

Daniel J. Krueger, Conley Rose, Houston, TX, James R. Batchelder, Day Casebeer Madrid and Batchelder, Cupertino, CA, for Plaintiff.

Barbara A. Bailey, Charles A. Blanchard, Jerod E. Tufte, Brown and Bain, Chad S. Campbell, Michael F. Bailey, Perkins Coie Brown and Bain, Phoenix, AZ, Mark C. Mazzarella, Mazzarella Caldarelli, 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 Defendant, Maxim Integrated Products, 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 Maxim was represented by the firm of Perkins, Coie, Brown & Bain.

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 LANGUAGE	COURT'S CLAIM CONSTRUCTION
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 communications system, any fixed station that communicates with mobile stations] that transmits signals including power control commands [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 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:
comprising the steps of:	
determining an open loop power control value in	determining an 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)] 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 amplifier in response to the maximum gain setting; and	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

if the summation signal is	if the summation signal is less than the maximum gain setting, adjusting the
_	variable gain amplifier in response to the summation signal.
setting, adjusting the variable gain amplifier in	
response to the summation	
signal.	
Claim 5	Claim 5
A method for limiting	A method for limiting transmit power of a radio [level of power transmitted
transmit power of a radio	by the radio] operating in a cellular environment [a system of wireless
operating in a cellular	communications by means of radio waves], the cellular environment
environment, the cellular	comprising a plurality [two or more] of cells [cell means a base station (in a
environment comprising a	wireless communications system, any fixed station that communicates with
plurality of cells that	mobile stations) and the geographic area defined by its transmission range]
transmit power control	that transmit power control commands [commands from the base station
	instructing the radio to turn up or turn down power] to the radio, the radio
1	comprising a variable gain amplifier, a maximum gain setting [upper limit on
-	the gain setting], and a power limiting accumulator [a device that
gain setting, and a power	accumulates a sum that can be used for limiting the transmit power of a
limiting accumulator, the method comprising the	radio], the method comprising [including but not limited to] the steps of:
steps of:	
-	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
dunishinung u signar,	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 gain
signal in response to the	of the variable gain amplifier] in response to the transmitted power control
transmitted power control	commands [commands from the base station instructing the radio to turn
commands;	up or turn down power];
	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 (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 limit
power value to the	on the gain setting];
maximum gain setting;	: f 4h - di : iti - d
is greater than the	if the digitized power value is greater than the maximum gain setting [upper limit on the gain setting] , decreasing the gain of the variable gain amplifier;
maximum gain setting,	and
decreasing the gain of the	and
variable gain amplifier;	
and	
	if the digitized power value is greater than the maximum gain setting [upper
is greater than the	limit on the gain setting], prohibiting the gain adjust signal [a signal that can
maximum gain setting,	be used to change the gain of the variable gain amplifier] from increasing in
prohibiting the gain adjust	-
signal from increasing in	base station instructing the radio to turn up or turn down power].
response to the transmitted	

power control commands.	
Claim 6	Claim 6
A method for limiting	A method for limiting transmit power of a radio [level of power transmitted
transmit power of a radio	by the radio] operating in a cellular environment [a system of wireless
operating in a cellular	communications by means of radio waves], the cellular environment
environment, the cellular	comprising a plurality of cells [cell means a base station (in a wireless
environment comprising a	communications system, any fixed station that communicates with mobile
plurality of cells that	stations) and the geographic area defined by its transmission range] that
transmit power control	transmit power control commands [commands from the base station
commands to the radio, the	instructing the radio to turn up or turn down power] to the radio, the radio
radio comprising a variable	comprising a variable gain amplifier [a unidirectional device that is capable
gain amplifier, a maximum	of enlarging the waveform supplied to it, where the enlargement can be
gain setting, and a power	changed over a range, either continuously or in incremental steps], a
control command	maximum gain setting, and a power control command accumulator [a device
accumulator that generates	which maintains the sum of power control values] that generates a gain adjust
a gain adjust signal, the	signal, the method comprising the steps of:
method comprising 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 the gain adjust	determining the 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 to
commands;	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 limit
power value to the	on the gain setting];
maximum gain setting;	
if the digitized power value	if the digitized power value is greater than the maximum gain setting, decreasing
is greater than the	the gain adjust signal by a predetermined amount for every predetermined unit of
maximum gain setting,	time until the gain adjust signal is less than the maximum gain setting; and
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	
-	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
maximum gain setting,	signal.
varying the gain of the	
variable gain amplifier in	

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	A system of wireless communications by means of radio waves
environment	
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 setting	Upper limit on the gain setting
Open loop power control value	The value of the automatic gain control setpoint
Plurality	Two or more
Power control	A device which maintains the sum of power control values
command accumulator	
Power control commands	Commands from the base station instructing the radio to turn up or turn down power
Power control	The value of the automatic gain control setpoint (the setpoint generated by a control
value	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
	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. Maxim Integrated Products, Inc.

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