

United States District Court  
For the Northern District of California

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UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN JOSE DIVISION

CORNING OPTICAL COMMUNICATIONS ) WIRELESS, LTD., )  Plaintiff, )  v. )  SOLID INC., et al., )  Defendants. )	Case No. 5:14-cv-03750-PSG  <b>CLAIM CONSTRUCTION ORDER</b>
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Plaintiff Corning Optical Communications Wireless, Ltd. claims Defendants SOLid Inc. and Reach Holdings LLC infringe United States Patent Nos. 5,969,837 and 7,438,504. Consistent with Pat. L.R. 4-3(c), the parties seek construction of various claim terms.<sup>1</sup> The parties appeared for a hearing on the matters at hand earlier today. To avoid unnecessary delay, the court proceeds to issue its constructions without its full reasoning and analysis:

PATENT NO.	CLAIM TERM/PHRASE	CONSTRUCTION
’837	“[remote unit comprising] plural antennas for communicating with communicators along plural wireless communications networks”	“two or more antennas for sending and/or receiving wireless signals to/from communications devices over the plural wireless communications networks”
’837	“wherein a low frequency control signal is multiplexed by said communications interface onto said optical fiber”	“a low frequency control signal is a signal used to convey control information and having a lower frequency than the analog communications signals; the

<sup>1</sup> See Docket No. 146.

1			communications interface includes the device(s) and/or circuitry that multiplex(es) the low frequency control signal with another signal to be transmitted on the optical fiber”
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3	’837	“wherein a low frequency data signal is multiplexed by said communications interface to a microprocessor”	“a low frequency data signal is a signal used to convey data and having a lower frequency than the analog communications signals; the communications interface includes the device(s) and/or circuitry that multiplex(es) the low frequency data signal with another signal to be transmitted to a microprocessor”
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8	’837	“fiber optic transmitter receiving said [single/combined] radio frequency analog output and providing a corresponding optical output”	Plain and ordinary meaning
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10	’837	“fiber optic receiver receiving an optical input and providing an RF analog output”	Plain and ordinary meaning
11	’837	“soft limiter for substantially preventing distortion due to an inadvertent increase in communication power”	“device(s) and/or circuitry for reducing a signal’s power without substantially distorting the information conveyed by the signal”
12			
13	’837	“wherein a single duplex cable interconnects each of said antennas with said communications interface”	“wherein a single cable that allows transmission in both directions interconnects each of said antennas with said communications interface”
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15	’504	“multiple input multiple output (MIMO) signals”	“multiple signals that have overlapping frequency spectrums and that are transmitted and/or received by separate antennas with overlapping coverage areas and that carry a different data stream”
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18	’504	“endpoint [of a DAS network]”	“(1) antenna location [of a DAS network] communicating with end users (“antenna endpoint”), or (2) distribution location [of a DAS network] where signals are received from a radio service(s) source and processed signals are distributed to at least one antenna location (“distribution endpoint”)
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21	’504	“frequency shifting n-1 of the MIMO signals into signals with n-1 separate frequencies”	“changing the frequency of n-1 of the MIMO signals, each to a different frequency, to create n-1 frequency shifted signals”
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24	’504	“a single coaxial cable extending for at least part of a path from the first endpoint to a second endpoint of the DAS network”	“a single coaxial cable connected to an antenna endpoint and extending for at least part of a path to a distribution endpoint of the DAS network, for carrying both uplink and downlink signals”
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27	’504	“at the second endpoint, reconstructing the original MIMO signals”	“at the second endpoint, constructing a replica of the original MIMO signals”
28	’504	“providing a plurality n of original	“providing a number (n) of MIMO

	MIMO signals”	signals, where n is two or more”
’504	“providing a plurality of MIMO signals belonging to a plurality of services”	“providing two or more MIMO signals from each of two or more services”

The parties should rest assured that the court arrived at these constructions with a full appreciation of not only the relevant intrinsic and extrinsic evidence, but also the Federal Circuit’s teaching in *Phillips v. AWH Corp.*,<sup>2</sup> and its progeny. So that the parties may pursue whatever recourse they believe is necessary, a complete opinion will issue before entry of any judgment.

**SO ORDERED.**

Dated: April 22, 2015

  
PAUL S. GREWAL  
United States Magistrate Judge

<sup>2</sup> 415 F.3d 1303, 1312-15 (Fed. Cir. 2005).