



IPR2017-01068

**LSI Corporation and Avago Technologies U.S., Inc
Regents of the University of Minnesota**

Petitioners' Demonstrative Exhibi





U.S. Patent No. 5,859,601

Claim Construction

“transitions”

- The only disputed term is “transition(s)” as used in C

13. A method for encoding m-bit binary data into n-bit binary codewords in a recorded waveform, where m and n are preselected positive integers such that n is greater than m, comprising the steps of:

receiving binary datawords; and

producing sequences of n-bit codewords;

imposing a pair of constraints (j;k) on the encoded waveform;

generating no more than j consecutive **transitions** in the recorded waveform such that

generating no more than k consecutive samples in the said sequences without a **transition** in the recorded waveform.

“transitions”

- UMN asks the Board to import multiple “magnetic” li

“UMN asserts that the Board should construe “transition” in the Challenged Claims to mean in the *magnetic* orientation of adjacent bit reg a recording track of a *magnetic* recording me

UMN Res

- Both the intrinsic and extrinsic evidence refute UMN

“transitions”

- Claim 13 does not say “magnetic”— and UMN’s argu

generating no more than j consecutive transitions of said sequence in the recorded waveform such that $j \geq 2$; and generating no more than k consecutive sample periods of said sequences without a transition in the recorded waveform.

Claim 13 (Ex. 1001 at 10:46-59)

17. The m sequences pro than one of j c to 0 and no m consecutive 1 recording form

15 Q Could the word "transitions" in Claim 13
16 mean transitions from 0 to 1 and from 1 to 0 in a
17 binary sequence?

18 A Not in the context of this patent. I
19 know the transitions is a really specific thing.
20 In the context of this patent, as I have stated,
21 it is clear it refers to reversal and magnetic
22 orientations.

18 Q. :
19 an example
20 Claim 13?
21 A. :
22 at our cla
23 Now, if yo
24 binary sy
25 You're ta

Ex. 1035 at 104:15-22 (UMN’s expert Prof. McLaughlin);
also LSI Reply at 2-4.

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