Exh. B

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UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF CALIFORNIA

BEFORE THE HONORABLE MARILYN HALL PATEL, JUDGE

APPLE COMPUTER, PLAINTIFF, VS. BURST.COM. DEFENDANT.	)	NO. C 06-0019 MHP

SAN FRANCISCO, CALIFORNIA
THURSDAY, FEBRUARY 1, 2007

TRANSCRIPT OF PROCEEDINGS

APPEARANCES:

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REPORTED BY: JAMES YEOMANS, CSR #4039, RPR
OFFICIAL REPORTER

COMPUTERIZED TRANSCRIPTION BY ECLIPSE

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OR VIEW COMPRESSED VIDEO OR FOR THAT MATTER COMPRESSED IMAGES WE HAVE TO DECOMPRESS IT FIRST, UNPACK THE BITS, THEN REARRANGE THEM INTO A SONG OR VIDEO.

NOW, COMPRESSION IS SOMETIMES REFERRED TO AS ENCODING OR CODING. NOW, THESE ARE VERY GENERAL WORDS IN SIGNAL PROCESSING AND THEY'RE USED TO DESCRIBE MANY DIFFERENT FUNCTIONS.

IN THIS CASE YOU WILL SEE ME THROUGHOUT THE TUTORIAL USING THEM, ENCODING AND CODING, I'M USING THEM AS SYNONYMS FOR COMPRESSION.

SO HERE I'VE GIVEN THE WHOLE END-TO-END BLOCK DIAGRAM FOR COMPRESSION OPERATION. WE START OFF WITH OUR ORIGINAL SOURCE FILES, SO THIS COULD BE OUR DIGITIZED AUDIO OR DIGITIZED VIDEO AND IT'S INPUT TO A COMPRESSOR, THIS IS GOING TO REDUCE THE NUMBER OF BITS OR THE FILE SIZE REQUIRED TO REPRESENT THE SOURCE INFORMATION.

SO HERE IN THE MIDDLE WE CALL THIS THE COMPRESSED FILE. YOU CAN SEE I'VE SHOWN IT WITH FEWER BITS. THIS OPERATION IS REVERSED BY THE DECOMPRESSOR.

SO SOMETIMES, I THINK, PEOPLE CALL THIS AN INFLATER, IN VERY COLLOQUIAL SPEECH IT UNPACKS THE COMPRESSED FILE AND GIVES US BACK A VERSION, AND I'LL CLARIFY WHAT I MEAN BY THAT IN A MOMENT, A VERSION OF AUDIO/VIDEO INFORMATION WHICH WE CAN SEE OR HEAR.

NOW, ONE VERY IMPORTANT POINT I NEED TO MAKE ON THIS

FROM POINT A TO POINT B, WE'RE LOOKING AT DIFFERENT LEVELS WHERE VARIOUS EVENTS OCCUR.

IN 24 CASES GETTING THE FILES SMALLER IS GOING TO ALLOW THEM TO BE DOWNLOADED FASTER BECAUSE YOU JUST HAVE FEWER BITS, RIGHT, FEWER BITS ARE GOING TO TAKE LESS TIME TO GET FROM POINT A TO POINT B.

THE COURT: THANK YOU.

DR. HEMAMI: THESE ARE EXCELLENT QUESTIONS.

THE COURT: I THINK, I MAY GET A DIFFERENT RESPONSE FROM APPLE.

AM I CORRECT, MR. POWERS?

MR. POWERS: SLIGHTLY DIFFERENT, YES.

DR. HEMAMI: OKAY. SO WE SPENT A LOT OF TIME TALKING ABOUT VIDEO, SO I HAVE ONE SLIDE ON AUDIO BECAUSE WE WANT TO TOUCH ON THAT AS WELL. IT'S JUST NOT NEARLY AS SEXY AS VIDEO FOR ME.

SO THE AUDIO COMPRESSION IN THE BURST PATENTS CATEGORY TWO COMPRESSION, THIS IS THE RELATIVE -- LET'S LOOK AT SEVERAL SAMPLES AT THE TIME IS DESCRIBED.

AND THE SPECIFICATIONS SPECIFICALLY USES THE TERMS CONVENTIONAL ALGORITHMS. SO IF WE LOOK AT WHAT ARE CONVENTIONAL ALGORITHMS THAT WERE USED IN '88 TIME FRAME, AND FOR THAT MATTER NOW AS WELL, ONE CONVENTIONAL ALGORITHM IS WITH THE AUDIO, WE TAKE MULTIPLE SAMPLES AT A TIME, WE COMPUTE DIFFERENCES BETWEEN THIS GROUP OF SAMPLES, GROUPS OF SAMPLES

USING FIXED OR CHANGING EQUATION, THEN WE ENCODE THESE DIFFERENCES, THEN IS OUR COMPRESSION OPERATION FOR AUDIO.

DIFFERENTIAL PULSE CODE MODULATION WAS AND IS VERY COMMONLY USED FOR AUDIO CODING. THE SPECIFICATIONS MENTIONS A FORM OF DCPN, WHICH IS FIBONACCI DELTA COMPRESSION.

IN SOME INSTANCES WE CAN USE TECHNIQUES, FILTER TECHNIQUES. THESE ARE MORE SOPHISTICATED WAYS TO COMPUTE DIFFERENCES BETWEEN ADJACENT SAMPLES THAT ALLOW US TO DO AN EVEN BETTER JOB OF COMPRESSING THE AUDIO. AGAIN, BETTER JOB, I MEAN SMALLER FILES.

NOW, WHAT I'D LIKE TO DO IS END UP MY COMPRESSION SECTION JUST WITH HOW DO WE THINK ABOUT THESE COMPRESSED FILES AND THE COMPRESSED REPRESENTATION. SO WHAT I HAVE HERE IS OUR BLOCK DIAGRAM OUR ENTIRE COMPRESSION DECOMPRESSION SYSTEM.

AND LET'S SUPPOSE, THAT WE START OFF WITH A CONVERTED VIDEO, SAY THE BEATLES WITH LET IT BE, WHICH IS THREE MINUTES LONG. WERE I TO DIGITIZE THAT ENTIRE FILE IN TERMS OF THE AUDIO AND THE VIDEO I WOULD END UP WITH 1.3 GIGABYTES OF DATA. VERY, VERY LARGE AMOUNT OF DATA.

AND THE BYTE RATE -- THIS IS THE RAW DATA RATE THAT THE BYTES WOULD BE COMING OUT OF ANALOG TO DIGITAL CONVERTERS FOR THE AUDIO AND THE VIDEO IS 57.4 MEGABYTES PER SECOND. I GOT THIS NUMBER BY ADDING THE AUDIO BYTE RATE WE SAW EARLIER AND THE VIDEO BYTE RATE WE SAW EARLIER, THIS IS NET PACKAGE AUDIO AND VIDEO.

CERTIFICATE OF REPORTER

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE FOREGOING PROCEEDINGS WERE REPORTED BY ME, A CERTIFIED SHORTHAND REPORTER, AND WERE THEREAFTER TRANSCRIBED UNDER MY DIRECTION INTO TYPEWRITING; THAT THE FOREGOING IS A FULL, COMPLETE AND TRUE RECORD OF SAID PROCEEDINGS.

I FURTHER CERTIFY THAT I AM NOT OF COUNSEL OR ATTORNEY FOR EITHER OR ANY OF THE PARTIES IN THE FOREGOING PROCEEDINGS AND CAPTION NAMED, OR IN ANY WAY INTERESTED IN THE OUTCOME OF THE CAUSE NAMED IN SAID CAPTION.

THE FEE CHARGED AND THE PAGE FORMAT FOR THE TRANSCRIPT CONFORM TO THE REGULATIONS OF THE JUDICIAL CONFERENCE.

FURTHERMORE, I CERTIFY THE INVOICE DOES NOT CONTAIN CHARGES FOR THE SALARIED COURT REPORTER'S CERTIFICATION PAGE.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS 5TH DAY OF FEBRUARY, 2007.

James Yeomans

JAMES YEOMANS, CSR, RPR