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UFO UpDates Mailing List

Re: UFO Communication?

From: Rick Goldsmith <rgoldsm@synapse.net>
 Date: Mon, 25 Jan 1999 19:32:26 -0500
 Fwd Date: Tue, 26 Jan 1999 03:41:27 -0500
 Subject: Re: UFO Communication?

>From: Brian Straight <brians@mdbs.com>
 >To: UFO UpDates - Toronto <updates@globalserve.net>
 >Subject: Re: UFO Communication?
 >Date: Mon, 25 Jan 1999 09:42:19 -0500

>>From: Rick Goldsmith <rgoldsm@synapse.net>
 >>To: UFO UpDates - Toronto <updates@globalserve.net>
 >>Subject: Re: UFO Communication?
 >>Date: Fri, 22 Jan 1999 23:49:26 -0500

>Rick --

>Here's a quote from the Minidisc page FAQ:

>Recordable MD's are similar, but a pre-groove replaces the pits
 >and valleys and an MO coating replaces the aluminum one. When
 >recording, a laser is focused from one side of the disc onto the
 >pre-groove and heats a spot on the MO recording layer to its
 >Curie point while a magnetic field from a head in contact with
 >the other side of the disc aligns magnetic dipoles within (read
 >magnetizes) the heated spot on the MO layer (the N/S orientation
 >corresponding to 0s and 1s in the data). During playback the MD
 >machine focuses the laser on the pre-groove again, but at lower
 >power, and the data is read back by measuring changes in
 >polarization of light reflected from the previously magnetized
 >regions (the Faraday effect).

Thank-you for sending along this quote, Brian. Very informative.
 In fact now I'm sure that there is no magnetic bending of light,
 laser or otherwise, happening in one of these machines.

The "changes in the polarization" of the reflected laser light,
 in this example, has more to do with the "reflective properties
 of the MO layer that were modified by the magnetic record head".

By "aligning the magnetic dipoles", you are going to modify the
 reflective properties of the material as well. In the case of a
 non-reflective, read-through media, polarization would take the
 place of reflection (sort of).

Picture that entire readable track on the disk being a gazzillion tiny little mirrors (or one really long one) carved from one big mirror by melting a spot, aligning it's reflective surface magnetically, and moving along to the next little mirror. The laser is lower-power when reading because if it weren't, you'd melt the little mirrors again and be back at square one, a blank disc.

Sounds to me like this technology was invented to avoid manipulating the laser itself, with regards to writing and reading the data. I can imagine that being quite a finnick operation, considering the tolerances involved. It's so much easier to do it magnetically. I guess the next step will be aligning the dipoles discreetly, atom by atom, and make it affordable teeny-weeny read-write head).

This is my take on the quote you graciously supplied. I could expand on this if you are interested (supper's ready). Let me know...

'Not trying to pick a fight here, I always enjoy reading your posts but I believe one of the main goals for this year should be keeping our science and technology Straight :) when it involves things ufological. Feel free to let me have it if I give you a bum steer.

Cheers,

Rick Goldsmith

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