IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Continuation of U.S. Patent Application
11/078,778, Filed: 3/11/05

Group No.: Not yet assigned

Applicant: Michael Tasler

Conf. No.: Not yet assigned

Serial No.:   Filed Herewith

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For: ANALOG DATA GENERATING
               AND PROCESSING DEVICE
               FOR USE WITH A PERSONAL
               COMPUTER (As Amended
               Herein)

Attorney
Docket No.:   0757/97866

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-0001

Dear Sir:

     A continuation patent application is being filed contemporaneously herewith.   Please

enter this preliminary amendment prior to examination of the continuation application.

IN THE TITLE:

Please amend the title to read as follows:

ANALOG DATA GENERATING AND PROCESSING DEVICE FOR USE WITH A

PERSONAL COMPUTER.

IN THE CLAIMS:

Please cancel claims 1-16 without prejudice, and add new claims 17-39 as noted hereinafter:

1-16.   (cancelled).

17.   (new) An analog data generating and processing device (ADGPD), comprising:

a processor and a memory;

one or more transducers that are operatively coupled to the processor and the memory;

a first set of instructions stored in the memory that can be executed at one or more user selected times, each execution of the first instruction set causing the one or more transducers to generate an analog data set that is representative of one or more analog wave signals that are generated or reflected by a source that is external to and not in substantial proximity to the ADGPD;

an analog to digital converter that is operatively coupled to the one or more transducers, the processor and the memory so that, each time the first instruction set is executed, a digitized analog data set is generated from the analog data set that is generated when the first instruction set is executed;

wherein one or more digitized analog data sets are stored in the data storage location of the memory;

an I/O port that is operatively coupled to the processor and the memory, the I/O port being adapted to receive device identification signals, data identification signals, and data

transfer signals that are sent from a multi-purpose user interface (MPUI) of a personal computer (PC), the PC periodically sending the device identification signals to its MPUI;

a second set of instructions stored in the memory that are to be executed after the I/O port has received and the processor has processed one or more device identification signals to cause a response signal to be automatically and without user intervention sent to the I/O port to allow a PC to automatically and without user intervention recognize that it can communicate with the ADGPD as if the ADGPD were a commercially available mass storage device even though the ADGPD is not a commercially available mass storage device;

a third set of instructions stored in the memory that are to be executed after the I/O port has received and after the processor has received and processed a data identification signal to cause identification information to be automatically and without user intervention sent through the I/O port to allow a PC to create a visual representation of the data storage location of the memory on a display; and

a fourth set of instructions stored in the memory that are to be executed after the I/O port has received and after the processor has received and processed a data transfer signal to cause user selected ones of the digitized analog data sets to be transferred from the data storage location of the memory through the I/O port by means of a driver that is a component of an operating system of a PC when the operating system is initially installed in the PC.

18. (new) The ADGPD of claim 17, wherein each analog wave signal comprises electromagnetic radiation.

19.   (new) The ADGPD of claim 18, wherein the electromagnetic radiation is representative of an object that is physically separated from and can be located not in substantial proximity to the ADGPD.

20.   (new) The ADGPD of claim 19, wherein the electromagnetic radiation is generated by a diagnostic radiological system.

21.   (new) The ADGPD of claim 19, wherein the commercially available mass storage device comprises a hard disk drive.

22.   (new) The ADGPD of claim 19, wherein receipt and processing of the response signal by a PC allows it to communicate with the ADGPD as if it were a hard disk drive even though it is not a hard disk drive.

23.   (new) The ADGPD of claim 19, wherein the I/O port comprises a SCSI interface.

24.   (new) The ADGPD of claim 19, wherein the processor comprises a digital signal processor.

25.   (new) The ADGPD of claim 19, wherein the identification information comprises at least the number of different digitized analog data sets that are stored in the data storage location.

26.   (new) The ADGPD of claim 25, wherein the identification information further comprises a root directory that can be accessed by a PC.

27.   (new) The ADGPD of claim 26, wherein the identification information further comprises a configuration file.

28.   (new) The ADGPD of claim 19, wherein the I/O port is to be operatively coupled to an MPUI by a wire-based connection.

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