IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Michael Tasler

Application No.: 12/891,443

Filed: September 27, 2010

For: ANALOG DATA GENERATING AND
        PROCESSING DEVICE FOR USE WITH A
        PERSONAL COMPUTER

Confirmation No.: 1408

Art Unit: 2181

Examiner: Lee, Chun Kuan

AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In conjunction with the Request for Continued Examination submitted herewith and in response to the Office Action mailed April 27, 2012, please amend the above identified application as follows:

<u>**Amendments To The Claims:**</u>

Please cancel claim 1 and add new claims 2-36:

1.   (cancelled).

2.   (currently amended) An analog data acquisition device operatively connectable to a computer through a multipurpose interface of the computer, the computer having an operating system ~~and~~ being programmed so that when ~~it~~the computer receives a signal from the device through said multipurpose interface of the computer indicative of a class of devices, the computer automatically activates a device driver corresponding to the class of devices for allowing the transfer of data between the device and the operating system of the computer, the analog data acquisition device comprising:

a) a program memory;

b) an analog signal acquisition channel for receiving a signal from an analog source;

c) a processor operatively interfaced with the multipurpose interface of the computer, the program memory, and a data storage memory when the analog data acquisition device is operational;

d) wherein the processor is configured and programmed to implement a data generation process by which analog data is acquired from the analog signal acquisition channel, the analog data is processed, and digitized, and the processed and digitized analog data is stored in a file system of the data storage memory as at least one file of digitized analog data;

e) wherein when the analog acquisition device is operatively interfaced with the multipurpose interface of the computer, the processor executes at least one instruction set stored in the program memory and thereby automatically causes at least one parameter indicative of the class of devices to be sent to the computer through the multipurpose interface of the computer,

independent of the analog source, wherein the analog data acquisition device is not within the class of devices; and

f) wherein the processor is further configured and programmed to execute at least one other instruction set stored in the program memory to thereby allow the at least one file of digitized analog data acquired from the analog signal acquisition channel to be transferred to the computer using the device driver corresponding to said class of devices so that the analog data acquisition device appears to the computer as if it were a device of the class of devices;

whereby there is no requirement for any user-loaded file transfer enabling software to be loaded on or installed in the computer in addition to the operating system.

3. (previously presented) The analog data acquisition device of claim 2, wherein the analog data acquisition device is a stand alone device.

4. (previously presented) The analog data acquisition device of claim 2, wherein the analog data acquisition device includes a SCSI interface circuit.

5. (previously presented) The analog data acquisition device of claim 2, wherein the analog data acquisition device is designed so that the analog source is detachable.

6. (previously presented) The analog data acquisition device of claim 2 configured to allow for a plurality of different data transmit devices to be attached thereto and detached therefrom.

7. (previously presented) The analog data acquisition device of claim 2, wherein the processor is adapted to be interfaced with the multi-purpose interface of an external computing device by means of a cable.

8. (previously presented) The analog data acquisition device of claim 2, wherein the analog source comprises a data transmit/receive device.

9. (previously presented) The analog data acquisition device of claim 8, wherein the analog source is designed for one of one-way and two-way communication with the host device.

10.   (previously presented) The analog data acquisition device of claim 2, wherein the processor converts the digitized analog data acquired from the analog signal acquisition channel to a form that simulates data from a hard disk and transfers that converted data to the computer through the multipurpose interface such that the converted data appears to the computer as data from a hard disk.

11.   (previously presented) The analog data acquisition device of Claim 2 further comprising a plurality of independent analog signal acquisition channels, each of the plurality of channels operatively coupled to the processor for operatively coupling to one of a plurality of analog sources such that analog data is simultaneously acquired from at least two of the plurality of channels, is digitized and is coupled into the processor and is processed by the processor.

12.   (previously presented) The analog data acquisition device of claim 2, wherein the processor allows for a plurality of different data transmit devices to be attached thereto and detached therefrom.

13.   (previously presented) The analog data acquisition device of claim 2, wherein the processor is designed so that a user can attach the analog source thereto or detach the analog source therefrom.

14.   (withdrawn) The analog data acquisition device of claim 2, wherein the analog source comprises a multimeter.

15.   (previously presented) The analog data acquisition device of claim 2, wherein the analog source includes at least first and second transducers both of which are designed to transmit data.

16.   (previously presented) The analog data acquisition device of claim 2, wherein the at least one parameter is consistent with the analog data acquisition device being responsive to a SCSI inquiry command.

17.   (withdrawn) The analog data acquisition device of claim 2, wherein the analog

source is a medical device.

18.   (previously presented) The analog data acquisition device of claim 2, wherein the processor is configured to cause acquired analog data file system information to be automatically sent to the multi-purpose interface after the at least one parameter has been sent to the multi-purpose interface of the computer, (a) without requiring any end user to load any software onto the computer at any time, and (b) without requiring any end user to interact with the computer to set up a file system in the analog data acquisition device at any time.

19.   (previously presented) The analog data acquisition and interface device of claim 18, wherein the analog data acquisition device file system information comprises at least an indication of a file system type that is used to store the digitized analog data.

20.   (previously presented) The analog data acquisition device of claim 2,

wherein the processor is configured to cause file allocation table information to be sent to the multipurpose interface,

wherein the processor is configured to cause a virtual boot sequence to be sent to the multipurpose interface which includes at least information that is representative of a number of sectors of a storage disk, and

wherein the file allocation table information includes at least a start location of a file allocation table.

21.   (previously presented) The analog data acquisition device of claim 2, wherein the processor is configured to initiate a process by which the at least one file of digitized analog data is directly transferred to an input/output device.

22.   (previously presented) The analog data acquisition device of claim 21, wherein the processor is configured to allow a mode of operation of the analog data acquisition device other than the transfer of at least some of the at least one file of digitized analog data to the multipurpose interface to be controlled by means of an external personal computer.

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