

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Michael Tasler

Group No.: 2181

Serial No.: 11/467,073

Conf. No.: 3012

Filed: August 24, 2006

Examiner: Harold J. Kim

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

Attorney

Docket No.: 0757/97866

SUPPLEMENTAL PRELIMINARY AMENDMENT

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

Dear Sir:

Please enter this supplemental preliminary amendment prior to examination of the above-captioned application.

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IN THE CLAIMS:

Please cancel claims 17-39, and add new claims 40-84 as noted hereinafter:

1-39. (cancelled).

40. (new) An analog data generating and processing device for use with a personal computer having at least one multi-purpose interface to which inquiry signals are periodically sent as to what type of device is operatively connected thereto, the analog data generating and processing device comprising:

an input/output port that is to be operatively connected to the multi-purpose interface of the personal computer;

a sensor that is mounted within a housing, the sensor being adapted to receive analog wave signals from a source that is external to the housing and that is not located in substantial proximity to the sensor, the sensor being further adapted to generate sets of analog data from the analog wave signals that it receives;

an analog to digital converter that is operatively connected to the sensor and that generates a set of digitized analog data from each set of analog data;

a circuit that includes a processor and a first memory that are operatively connected to the analog to digital converter, a first set of instructions being stored in the first memory that are utilized by the processor to cause the sets of digitized analog data to be stored in the first memory irrespective of whether or not the analog data generating and processing device has been recognized by the personal computer;

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the first set of instructions being further adapted to cause the sets of digitized analog data to be stored in the first memory before the input/output port is connected to a multi-purpose interface of the personal computer;

a second set of instructions being stored in the first memory that are utilized by the processor to cause a response signal to be automatically and without user intervention sent from the input/output port to the multi-purpose interface after they have been operatively connected together and after an inquiry signal has been received by the input/output port, the response signal containing information that, when received and processed by a personal computer, allows the personal computer to automatically and without user intervention recognize the analog data generating and processing device as being a device having digital data that is stored therein;

a third set of instructions being stored in the first memory that are utilized by the processor, after the analog data generating and processing device has been automatically recognized by the personal computer, and while the input/output port is operatively connected to the multi-purpose interface, to cause user selected ones of the digitized sets of analog data, including any digitized data sets that are generated before the input/output port is connected to the multi-purpose interface of the personal computer, to be transferred from the first memory, through the input/output port, through the multi-purpose interface, and to the personal computer; and

the third set of instructions being further adapted to cause the user selected digitized data sets to be transferred to the personal computer, after the input/output port has been connected to the multi-purpose interface of the personal computer and after the analog data

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generating and processing device has been recognized by the personal computer, by means of a software driver that is stored in a second memory of the personal computer without user intervention.

41. (new) A combination comprising the analog data generating and processing device of claim 40 and a personal computer.

42. (new) The analog data generating and processing device of claim 40, wherein the analog wave signals comprise electromagnetic radiation.

43. (new) The analog data generating and processing device of claim 40, wherein the sensor is adapted to have two-way communication with the personal computer.

44. (new) The analog data generating and processing device of claim 40, wherein the analog wave signals are generated by a medical device.

45. (new) The analog data generating and processing device of claim 40, wherein the processor, first memory and circuit form a flexible interface.

46. (new) The analog data generating and processing device of claim 40, wherein the processor, first memory and circuit form a universal interface.

47. The analog data generating and processing device of claim 40, wherein the sensor comprises an electronic measuring device.

48. (new) The analog data generating and processing device of claim 40, wherein the sensor is electrically connected to the processor and the first memory by a two-way communication line.

49. (new) The analog data generating and processing device of claim 40, wherein the response signal is adapted to inform a personal computer that the analog data generating and processing device is a mass storage device.

50. (new) The analog data generating and processing device of claim 40, wherein the response signal is adapted to inform the personal computer that the analog data generating and processing device is a hard disk drive.

51. (new) The analog data generating and processing device of claim 40, wherein the response signal is adapted to lie to the personal computer about the true nature of the analog data generating and processing device.

52. (new) The analog data generating and processing device of claim 40, wherein the software driver is located in a BIOS of the personal computer.

53. (new) The analog data generating and processing device of claim 40, wherein the analog to digital converter receives power when the digitized sets of analog data are being transferred to the personal computer.

54. (new) The analog data generating and processing device of claim 40, wherein the sensor receives power when the digitized sets of analog data are being transferred to the personal computer.

54. (new) The analog data generating and processing device of claim 40, wherein receipt and processing of the response signal by the personal computer allows it to communicate with the analog data generating and processing device as if it were a mass storage device even though it is not a mass storage device.

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