# Apple Inc. v. Papst Licensing GmbH & Co., K

P.T.A.B. Proceeding No. IPR2016-01839 U.S. Patent No. 6,470,399 January 16, 2018



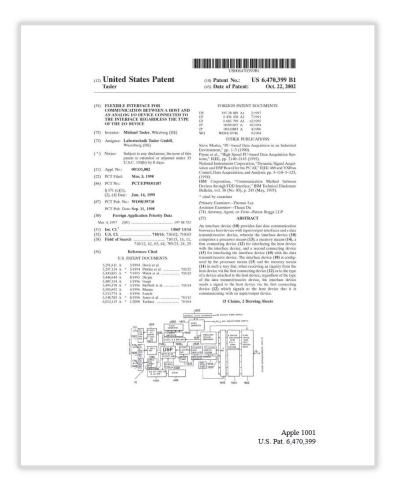
# Instituted Grounds ('399 Patent)

Ground	Claims	Туре	Primary Reference	Secondary Reference(s	
IPR2016-01839 ('399 Patent)					
1	1, 3, 5, 11, 14	§ 103	Kawaguchi	Schmidt and the "sampling ci references (Horowitz, Burr-Br Intersil, MT-090, Oppenhei	



# U.S. Patent 6,470,399 describes an interface device

The '399 patent discloses techniques to make "the interface device app to the host device as a hard disk."



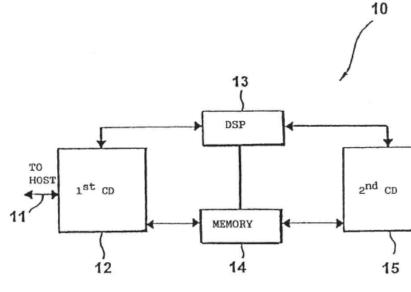


FIG.1



## '399 Claim 1

An interface device for communication between a host device, which comprises drivers for input/o customary in a host device and a multi-purpose interface, and a data transmit/receive device, the transmit/receive device being arranged for providing analog data, comprising:

a processor;

a memory;

a first connecting device for interfacing the host device with the interface device via the mult interface of the host device; and

a second connecting device for interfacing the interface device with the data transmit/receive the second connecting device including a sampling circuit for sampling the analog data prov data transmit/receive device and

an analog-to-digital converter for converting data sampled by the sampling circuit into digital wherein the interface device is configured by the processor and the memory to include a first interpreter and a second command interpreter, wherein the first command interpreter configured in such a way that the command interpreter, when receiving an from the host device as to a type of a device attached to the multi-purpose the host device, sends a signal, regardless of the type of the data transmit device attached to the second connecting device of the interface device, to device which signals to the host device that it is an input/output device cur host device, whereupon the host device communicates with the interface of the second command interpreter is configured to interpret a data request command from the type of input/output device signaled by the first command interpreter as a data transfer of



initiating a transfer of the digital data to the host device.

## '399 Claim 11

An interface device for communication between a host device, which comprises a multi-purpose ir specific driver for this interface, and a data transmit/receive device, the data transmit/receive device arranged for providing analog data, comprising:

a processor;

a memory;

a first connecting device for interfacing the host device with the interface device via the multi interface of the host device; and

a second connecting device for interfacing the interface device with the data transmit/receive the second connecting device including a sampling circuit for sampling the analog data prov data transmit/receive device and

an analog-to-digital converter for converting data sampled by the sampling circuit into digital where the interface device is configured using the processor and the memory to include a fir interpreter and a second command interpreter, wherein the first command interprete configured in such a way that the interface device, when receiving an inquinost device as to the type of a device attached at the multi-purpose interface that device, sends a signal, regardless of the type of the data transmit/receivitated to the second connecting device of the interface device, to the how which signals to the host device that it is an input/output device customary device, whereupon the host device communicates with the interface device of the specific driver for the multi-purpose interface, and wherein the second contemporate interpreter is configured to interprete a data request command from the host device to the type input/output device signaled by the first command interpreter as a data transfer command for transfer of the digital data to the host device.



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