## UNITED STATES PATENT AND TRADEMARK OFF BEFORE THE PATENT TRIAL AND APPEAL BOA

Samsung Electronics Co., Ltd., Samsung Electron America, Inc., and LG Electronics, Inc. Petitioners,

V.

Papst Licensing GmbH & Co. KG., Patent Owner

> IPR2016-01733 U.S. Patent No. 9,189,437

Patent Owner Papst's Demonstratives Hearing Date: November 1, 2017

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# Overview

- Petitioners Fail To Meet Their Burden To Establish Unpatentability
  - Independent Claims 1, 39, 41, 43
    - Automatic File Transfer Process
      - "without requiring any user-loaded file transfer enabl software to be loaded on or installed in the computer time" (Claim 1)
    - "using customary device driver present in the BIOS" (Cla 41)
      - "by a hard disk driver program which is matched to the host computer and part of a manufacturer installed Bl the host computer." (Dependent Claim 8)
    - A/D converter "configured to acquire analog data from earespective analog acquisition channel" (Claim 39)
    - A/D converter "configured to *simultaneously* acquire anal data from each respective analog source" (Claim 41)
  - Testimony of Expert Gafford not disputed

## Automatic File Transfer Process . . .without requiring any user-loaded file transfer enablin software to be. . .installed in the computer at a time" (Claim 1)

- Petition never addresses Aytac's specialized software (Pet. at 43-44)
- Petitioners' Reply arguments:
  - CATSYNC's synchronization and cache clearing functions are not explicitly claimed, therefore CATSYNC's presence on host computer irrelevant (Reply at 4)
  - CATSYNC not required to transfer a file (Reply at 13-14)

## • Papst's Response:

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- CATSYNC's functions enable transfer of the correct file requested (Response at 48-54)
  - CATCAS needed for enabling acquisition and transfer of faxes (Response at 45-47, 60; Ex. 2006 at ¶ 43)
- CATSYNC is required for file transfer- Aytac discloses CATSYNC is every single time a file is transferred (Response at 40-41, 60)
- To meet negative limitations, Aytac must be modified to remove CATSYNC (Response at 45-47)
- CaTbox would be inoperable without CATSYNC CATSYNC is file

## The '437 Patent Teaches a Device That Do Not Rely on Specialized Software

"The *user* is no longer responsible for installing the interface device 10 on the host de means of specific drivers which must also be loaded; instead the interface device automatically readied for operation when the host system is booted"

('437 patent at 7:22-26, Response

"The interface device according to the present invention therefore no longer commuwith the host device or computer by means of a specially designed driver but the me program which is present in the BIOS system ..."

('437 patent at 4:23-27; Respon

"Using a standard interface of a host device, the interface device according to the invention permits communication with any host device. By simulating an input/output to the host device and, in a preferred embodiment, by simulating a virtual mass device, the interface device is automatically supported by all known host systems with additional sophisticated driver software."

## Automatic File Transfer Process

### US 9.189.437 B2

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second connecting device, behave initially as a virtual and at the same time passive hard disk but can, as required, partici-pate actively on the bus so as to be able to initiate communi-cation directly with other SCSI hard disks of the host device

by bypassing the processor of the host device. Using a standard interface of a host device, the interface Using a standard interface of a host device, the interface device according to the present invention permits communi-cation with any host device. By simulating an input/output device to the host device and, in a preferred embodiment, by simulating a virtual mass storage device, the interface device 10 is automatically supported by all known host systems without any additional sophisticated driver software. The simulation of a freely definable file structure on the "virtual" host device interface device. simulation of a freely definable file structure on the "virtual" hard disk provides simple operation and expansion options and, through the implementation of any programs, indepen-dence from special software implemented on the host device. Help files included on the interface device 10 and plug-and-play support ensure ease of use even in portable, flexible host devices. Despite the very simple user interface, experienced users are free at any time to intervene in the functions of the interface device 10 on system level. The interface device 10 thus provides a universal solution which can cover the entire sneutrum of nossible data transmit/receive devices.

thus provides a unversal solution which can cover the entire spectrum of possible data transmit/receive devices. What is claimed is: I. An analog data generating and processing device (ADGPD), comprising: an input/output (i/o) port;

- a program memory; a data storage memory;

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a data storage memory; a processor operatively interfaced with the i/o port, the program memory and the data storage memory; wherein the processor is adapted to implement a data gen-eration process by which analog data is acquired from each respective analog acquisition channel of a plurality of independent analog acquisition channels, the analog

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12 duta from each respective channel is digitized, coupled into the processor, and is processor, and the processed and digitized analog data is stored in the data storage memory as at least one file of digitized analog data; wherein the processor also is adapted to be involved in an automatic recognition process of a host computer in which, when the i/o port is operatively interfaced with a multi-purpose interface of the host computer, the pro-cessor executes at least one instruction set stored in the data storage device instance of a storage data and and processing device to be automatically sens through the i/o port and 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 the alies of used user to interact with the computer of set up a file system in the ADCiPD at any time, wherein the al least one parameter is consistent with the ADCiPD being responsive to commands issued from a customary device driver.

wherein the at least one parameter provides information to the computer about file transfer characteristics of the ADGPD; and

ADX-PD2 and herein the processor is further adapted to be involved in an automatic file transfer process in which, when the i/o port is operatively interfaced with the multi-purpose interface of the computer, and after the at least one parameter has been sent from the i/o port to the multi-purpose interface of the computer, the processor executes at least one other instruction set stored in the executes at least one other instruction set stored in the program memory to thereby cause the at least one file of digitized analog data acquired from at least one of the plurality of analog acquisition channels to be transferred to the computer using the customary device driver for the digital storage device while causing the analog data association to proceeding during the malog data

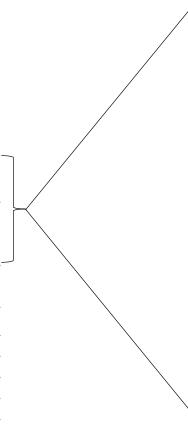
digital storage device while causing the analog data generating and processing device to appear to the computer as if it were the digital storage device without requiring any user-loaded file transfer enabling software to be loaded on or installed in the computer at any time.
 The analog data generating and processing device of claim 1 wherein the processor is configured to transmit to the computer active commands through the multi-purpose interface to access a system bus of the computer to enable communication directly with other devices of the computer while borasine the computer essor.

3. The analog data generating and processing device of claim 2 wherein the active commands initiate active access to write data directly to a hard drive in the host computer inde-

endent of the host computer central processor.
 The analog data generating and processing device of claim 1 is configured to allow at least one analog source to be

- chain 1 is compared to anow at least one analog source to be attached therefore and detached therefore.
  5. The analog data generating and processing device of claim 1, wherein the analog data generating and processing device is attached directly to at least one analog source.
- 6. The analog data generating and processing device of claim 1, wherein the analog data generating and processing device is a stand alone device.
- The analog data generating and processing device of claim 1, wherein the input/output port further comprises a SCSI interface circuit.
- The analog data generating and processing device of claim 1 wherein the at least one parameter identifies the analog data generating and processing device as a hard disk

Samsung Electronics Co., Ltd., et al. Ex. 1003, page 17



"wherein the processor is to be involved in an transfer process in which port is operatively interf multi-purpose interface of and after the at least one been sent from the i/o po purpose interface of the processor executes at le instruction set stored in memory to thereby cause file of digitized analog dat at least one of the plura acquisition channels to be the computer using the cu driver for the digital storage causing the analog data processing device to a computer as if it were the device without requiring a file transfer enabling se loaded on or installed in t any time ... "

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