ñ

1

2

3

4

5

6

Ż

8

9

10

11

13

13

CPP/M-914

هنايا

APBU-00000156

Dockets.Justia.com

Apple Computer Inc. v. Burst.com, Inc.

1. 5.1

Sams & Co. in 1983, incorporated herein by reference.) An NTSC composite signal is defined as the analog signal that carries the chrominance (color), luminance (brightness), synchronization (timing) and audio signals that make up the video signals received and displayed by television and video cassette recorders. These four components are combined into one signal by modulating the components in different ways. (Amplitude modulation and phase modulation are examples.) The standard video line signal is such a composite signal and may be received at input line 15 from one of the abovementioned sources.

TV RF tuner input port 16 also supplies a composite 12 signal as described in regard to video input line 15. The difference is that this signal is received from an antenna 14 or cable TV coaxial cable. To receive such a signal, tuner 15 16 is capable of being set or tuned to receive the desired 16 carrier frequency or television channel. 17

Selector switch 35 is provided to select either video 18. input line 15 or TV RF tuner 16 as an input signal source to 19 AVRU 11. 20

Auxiliary digital input port 17 is employed to receive 21 any acceptable digital signal such as computer-generated 22 video signal or as may be supplied by another VCR-ET. This 23 signal, for example, may be an RGB video signal such as that 24 delivered to computer monitors, or it may be a digitized 25 audio signal. (As mentioned above, an RGB signal is a 26 signal which communicates the strength of the red, green and 27 blue color components for the pixels that make up each video 28 frame.) Switch 36 selects whether the digital video/audio 29 input signal is chosen from auxiliary digital input port 30 17. Switch 36 supplies the selected signal to high speed 31 data bus 34 which carries the signals in digital form.

32 Fiber optic port 18 incorporates a fiber optic 33 transceiver. Port 18 has a capability for transforming 34 fiber optic (light) signals to electrical signals or for 35 transforming electrical signals to fiber optic signals. 36 Port 18 thus provides a capability for two-way communication 37 between high speed data bus 34 and a fiber optic signal 38

- 12 -

CPP/M-914

The incorporation of fiber optic port 18 in the 1 line. 2 VCR-ET provides a capability for receiving audio/video signals from or delivering audio/video signals to the fiber 3 optic line such as a fiber optic telephone line. The fiber 4 5 optic line carries digital signals in the form of light waves over great distances with a high degree of accuracy 6 and reliability and at a high speed (e.g., about 200 7 megabytes/second). The VCR-ET can receive/transmit a video 8 program at an accelerated rate via fiber optic port 18 9 from/to a variety of sources. For example a video program 10 may be communicated at an accelerated rate from the first 11 VCR-ET to a second VCR-ET in less time than it would take to 12 view the program. Thus, it is not necessary to access the 13 optical fiber for long periods of time in order to transmit 14 a long video program. 15

It is also envisioned that in the future, a video library may be established which downloads video programs at an accelerated rate via optical fibers to a subscriber's VCR-ET. After downloading, the program may be viewed, stored in memory, edited and/or a hard copy of the program may be made on magnetic tape, optical disk, etc.

Switch 37 is provided to select connection to the fiber optic input/output port 18. An OFF or open position is provided. The selected signal is delivered to or supplied from high speed data bus 34.

Analog output signals from AVRU 11 are delivered to the common terminal 38 of a selector switch 39. When set to 27 position A, switch 39 delivers the output signal of AVRU 11 28 directly to a video output line 41 as a standard STCS 29 composite signal; when set to position B switch 39 delivers 30 the output of VRU 11 to the input of RF modulator 19. 31 Modulator 19 converts the video signal to an RF-modulated 32 composite signal for delivery to such devices as televisions 33 and conventional VCR's. These types of devices play back 34 the video program on a particular frequency channel (such as 35 channel 4) on the television. Delivery to the television or 36 VCR is via RF output line 42.

37 38

16

17

18

19

20

21

22

23

24

25

26

Digital output signals from VCR-ET 10 may be dispatched

- 13 -

2

3 4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

26

27

28 13

29

30

31

33

34

35

36

37

38

Ó

1

CPP/M-914

from high speed data bus 34 via line 43 to input leads of RGB converter 21 and audio/video transmitter/receiver 22. RGB converter 21 converts the STCS signal into an RGB signal as required by computer monitors and similar display devices. The converted signal is received by a display device connected to RGB converter output line 44.

VCR-ET 10 includes audio/video transmitter/receiver 22 which is typically a built-in modem. Advantageously, the modem may be used to communicate an audio/video program over conventional phone lines in a manner similar to that described above with respect to optical fibers. The term modem is derived directly from its functionality as a modulator-demodulator which allows transfer of the audio/video signal in a digital format over the standard telephone line. Modems are commonly available for computers and are currently available in the form of a single integrated circuit. As an example, Sierra Semiconductor offers a 2400 baud single chip modem under its part number SC111006. Representative manufacturers of these single modem IC's can be found in the April 14, 1988 issue of Engineering Design News (EDN), pages 124-125. Some of these single IC modems have the added capability of generating the tones for dialing a phone number. The destination phone number may be entered by means of an optional keyboard/keypad 45 incorporated in the video recorder 10 of 25 the invention. Output port 46 of transmitter/receiver 22 connects directly to the telephone line.

Also associated with Modem 22 is an auxilliary keyboard 45' (Fig. 1A) of buttons for commanding the modem to perform tasks such as starting a transmission over phone lines (45a), terminating a transmission (45b), automatic telephone answering to receive transmissions (45c), using an optional 32 \ speaker (not shown) to monitor phone lines (45d), using an optional microphone (not shown) to speak over the phone lines (45e) and for controlling the baud rate (45f).

The application and utilization of the VCR-ET may include a number of forms or operating modes. In its first and simplest operating mode, AVRU 11 may be operated in the

- 14 -

2

3 4

5

6

7

8

9

10

CPP/M-914

16:

manner of a conventional VCR with signals from an antenna being received by tuner 16 and recorded directly on media 23 in analog form. At the same time the received program may be viewed on the television screen with the television connected at video output terminal 42. An optional signal source for this type of operation is the video line or camera input line 15 selectable by switch 35.

In a second operating mode a program stored in media 23 of AVRU 11 may be played back and viewed on the connected television set.

When it is desired to copy a program from one recording 11 media to another, the recording media holding the desired 12 program is installed in the AVRU. The recording media is 13 then played back with optional viewing on a connected 14 television set or other TV monitor or listening through 15 speakers (as appropriate). As the recording media is played 16 back, the analog signals from the recording media (video 17 and/or audio) are dispatched to VCU 12 via connection 47. 1.8 The analog signals are converted to digital signals by ADC 19 24, compressed by compressor/decompressor 26 and the 20 compressed digital signals are stored in memory 13. The 21 foregoing operations are accomplished under the control of 22 controller 27 and CPU 28. RAM 29 is used for interim data 23 storage during this process. Once the complete video/audio 24 program has been stored in memory 13, the recording media 25 from which the stored program has just been read is replaced 26 by blank recording media upon which the stored program is to 27 be copied. CPU 28 in cooperation with controller 27 and RAM 28 29 then executes the decompression and digital to analog 29 conversion of the program stored in memory 13, decompression 30 taking place in compressor/decompressor 26, and digital to 31 analog conversion being accomplished by DAC 25. The 32 resulting analog program is stored on the blank recording 33 media which constitutes media 23 of AVRU 11.

In an alternate mode of operation, the decompression circuitry of VCU 12 can be bypassed. Thus, a user has the option of downloading the stored program from memory 13 onto recording media 23 in compressed digital format. The user

- 15 -

CPP/M-914

1 can then reload the program from media 23 into memory 13 at 2 a future time for viewing, editing or recording back onto 3 recording media 23 in analog form. This capability allows 4 the user to quickly clear memory 13 for other interim uses 5 and also provides the user with a hard copy of the program 6 in digital format. The hard copy in compressed digital

6 In digital format. The hard copy in compressed digital 7 format has a number of uses, e.g. it could be archived for 8 later viewing, transmitted by an appropriate independent 9 transmitter, etc.

During the foregoing procedures, DCU 14 may be utilized 10 for editing operations. As the program is being read from 11 the first or original recording media, it is simultaneously 12 viewed on the TV screen, or listened to by means of an audio 13 monitor, converted to digital signals, compressed and stored 14 in memory 13. Once the digital audio/video program is 15 stored in memory 13, editing is accomplished by the user 16 through control of DCU 14, by means of a control panel (not 17 shown) coupled to DCU 14. If desired, additional 18 audio/video signals may be simultaneously entered into 19 memory 13 and added to those received from VCU 12: The 20 additional signals may be introduced from auxiliary digital 21 input port 17 or from fiber optic input/output port 18 and 22 may comprise video captions for super imposed position upon 23 the stored video images, or they may be audio commentaries 24 to be added to silent video presentations. In addition, as 25 mentioned above, the order in which various segments appear 26 in the video programs may be altered. Certain undesired 27 segments, such as TV commercials, may be removed. This 28 editing operation is accomplished under the control of 29 DCU 14. 30

In still another operating mode, a program stored in 31 media 23 of AVRU 11 or being received by AVRU 11 from input 32 line 15 (as from a video camera) may be digitized and 33 compressed by VCU 12 and routed via bus 34, to memory 13. 34 The data from memory 13 is then routed to line 43, 35 transmitter/ receiver 22 and to a telephone line. At the 36 other end of the telephone line the signals received are 37 processed by another VCR-ET. 38

- 16 -

ſ.,

27

35

36

37

38

CPP/M-914

1 Once received in the second VCR-ET's memory 13, the 2 digitized program can then either be viewed directly from memory or transferred to storage medium 23, either in its 3 entirety or in random segments, based on user preference. 4 In the case of video camera input at input 15 the 5 transmitted signals may comprise a live transmission. 6 Alternatively the transmitted program may be derived from a 7 program stored in media 23 of AVRU 11. In this case the 8 stored analog program is again decoded, digitized, 9 compressed and transmitted via bus 34 to memory 13. The 10 data in memory 13 is then communicated via line 43 and 11 transmitter/receiver 22 to telephone lines. 12

It follows, of course, that digitized video and audio 13 signals from the remote VCR-ET at the other end of the 14 telephone line may be received at line 46, entered into 15 memory 13 via transmitter/receiver 22, converted to analog 16 signals by VCU 12, and recorded on media 23 and then viewed, 17 if desired, on a television set connected at output 42. A 18 hard copy of the program may also be made for later viewing. 19

As mentioned earlier, when any of the foregoing 20 operations entail the processing of unmodulated video 21 signals, such signals must first be processed by RF 22 modulator 19 before they can be accepted by devices such as 23 a conventional VCR or television set; when the monitoring 24 means is a computer monitor or a similar display device the 25 signals are processed by RGB converter 21. 26

All of the foregoing operations are performed with enhanded quality and efficiency by virtue of the digital, 28 rather than analog, storage and transmission modes and the 29 compressed data storage mechanism, with additional 30 advantages of improved cost and reliability afforded in the 31 case of tape to tape (or other media to media) program 32 transfers by virtue of the requirement for only a single 33 tape deck or other storage device. 34

Fig. 3 illustrates an alternative embodiment invention in which AVRU 11 is not integral with VCU 12, memory 13 or editor 14. In this embodiment, AVRU 11 is a conventional, commercially available VCR which receives a modulated video

- 17 -

2 3

4

5

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

÷Ξ,

11

CPP/M-914

input signal on an input cable 50. In this embodiment AVRU 11 includes a RF tuner 51 for demodulating the input signal so it can be stored in media 23. AVRU 11 also includes a RF modulator 52 for modulating the signal received from media 23 and providing the RF modulated output , signal on an output cable 53, which can be coupled to a television set. (TV RF tuner 51 and RF modulator 52 are provided in typical commercially available VCR's.) A switch 54 is provided to couple input cable 50 to output cable 53 when media 23 is not serving as a video signal source. The VCR-ET of this embodiment includes a TV RF tuner 55 which receives and demodulates the signal on cable 53, and provides the resultant analog audio/video signal on a lead 56, which is digitized and compressed as described above. In this alternative embodiment, the digitized compressed signal may be processed as described above, e.g. stored in memory 13 (via high speed bus 34), edited, transmitted by the fiber optic port 18 to another VCR-ET, etc. When it is desired to view a program stored in memory 13, data from memory 13 is decompressed and converted to an analog signal by VCU 12, and the resulting signal is provided on an output lead 57 to a RF modulator 58, which modulates the video signal so that it can be received and stored by AVRU 11 or viewed on a television coupled to cable 53. (As mentioned above, in the Fig. 3 embodiment, AVRU 11 is a conventional VCR.)

One advantage of the embodiment of Fig. 3 is that many people already own VCR's. Rather than buying apparatus which duplicates much of the hardware already present in their VCR, the embodiment of Fig. 3 would provide to owners of conventional VCR's capabilities which are otherwise currently unavailable in an economical manner.

In one embodiment, analog auxillary audio and video input terminals 62, 64 are provided so that analog signals may be provided by alternate sources to VCU 12.

The embodiments described above include means for transmitting/receiving video programs over fiber optic cables. However, in an alternative embodiment, either in

- 18 -

t. Sai

APBU-00000163

CPP/M-914

 $\langle \rangle$

place of fiber optic port 18 or in addition to fiber optic 1 port 18, means are provided for transmitting and/or 2 receiving a video program via microwave. In conventional 3 microwave technology, satellite systems and microwave 4 transmitters transmit data using a low power/high frequency 5 signal. In an embodiment of the invention designed to 6 receive microwaves, the VCR-ET includes an amplifier for 7 amplifying the microwave signal and a demodulator for 8 obtaining the video program signal from the microwave 9 signal. Receiving, amplifying and demodulating the 10 microwave signal can be accomplished with conventional 11 microwave transceiver equipment. The video program signal 12 is typically in digital form, and may be stored, viewed or 13 edited as in the above-described embodiments. Program data 14 from memory 13 can also be transmitted by the microwave 15 transciever, thereby providing the capability for microwave. 16 transmission of stored video programs in compressed digital 17 format. Thus, the invention can be used to receive and 18 transmit programs via microwaves at an accelerated rate 19 similar to and at least as fast as, the transmission and 20 reception of programs over optical fibers. This feature 21 allows transmission and reception of programs in a few 22 minutes or seconds using currently available technology. 23 Both point-to-point microwave transceivers and satellite 24 transceivers may be used. 25

The embodiments described include means for receiving, 26 storing and transmitting both audio and video signals. 27 However, the invention encompasses apparatus which can store 28 and transmit video signals only and apparatus which can 29 store and transmit audio signals only. An embodiment 30 designed to store and compress audio signals is illustrated 31 in Fig. 4. Referring to Fig. 4, an audio signal source 70 32 (a tape recorder, microphone, record player, etc.) is 33 coupled to a digitizer and compressor circuit 72, which 34 converts the analog signal to a digital signal and 35 compresses the digital signal in a manner similar to VCU 12 36 described above. The digital compressed signal can then be 37 stored in a memory 74. Of importance, data from memory 74 38

- 19 -

2

3

4

5

6

7

8

11

CPP/M-914

can be transmitted by a fiber optic transceiver 76, or by a microwave transceiver 78 at an accelerated rate. This is important not only in a home entertainment application, but in other applications as well. For example, a user can dictate an audio presentation and send it to a remote location (e.g. an office) at an accelerated rate without having to monopolize the transmission medium (e.g. the fiber optic cable) for an extended length of time.

The business uses of the embodiment illustrated in Fig. 9 4 makes home offices feasible for many workers now confined 10 to more traditional offices and also opens new possibilities 11 to business people who are traveling. 12

In the embodiment of Fig. 4, data can also be loaded 13 from memory 74, via a modem 79 over a conventional phone 14 line 80. Data can also be received from phone line 80, 15 fiber optic transceiver 76 or microwave transceiver 78, 16 loaded into memory 74, and converted to an analog signal by 17 circuit 72, to be listened to via an audio monitor 82, or to 1.8 be stored on an audio tape cassette 84 or other storage 19 media. 20

An editor 86 is optionally provided so that the data in 21 memory 74 may be edited, e.g., by rearranging the order of 22 portions of the audio program, increasing or decreasing the 23 volume of portions (or different frequency components) of 24 the audio program, or enhancing the audio program through 25 filtering techniques (e.g. to remove static and noise). 26

An improved audio/video recorder with significantly 27 expanded functional capabilities is thus provided in 28 accordance with the stated objects of the invention and 29 although but a single embodiment of the invention has been 30 illustrated and described, it will be apparent to those 31 skilled in the art that various changes and modifications 32 may be made therein without departing from the spirit of the 33 invention or from the scope of the appended claim. For 34 example, the VCR-ET can be constructed so as to be 35 portable. Thus, it could be carried to a location where it 36 is desired to record a program, and used to edit the program 37 after it is recorded with a video camera. Other 38

- 20 -

haith

CPP/M-914

5 4	of the present :			
				•
·				
•		,		
		·		
1				
	•		/	. ,
				•
		· · ·		
			·.	
		- 21 -		

CPP/M-914 laiims What is claimed is: Apparatus comprising: 1. first means for receiving a video signal from a VCR and digitizing said / received signal; memory means coupled to said first means for 8 storing said digitized video signal; and q second means coupled to said memory means for 10 converting said stored digitized signal to an analog 11 video signal and providing said analog video signal to 12 said VCR. 13 14 2. Apparatus of Claim 1 further comprising an editor 15 for editing said digitized video signal stored in said 16 memory means. 17 18 Apparatus of claim 1 further comprising an I/O з. 19 port for receiving data and storing said data in said memory 20 means so that said received data can be converted to an 21 analog video signal by said second means, and so that said 22 data in said memory means can be communicated to said I/O port, whereby said apparatus facilitates communication of signals between said/VCR and an auxiliary device coupled to 25 said I/O port. 26 27 Apparatus of Claim 3 wherein said I/O port is an 4. 28 optic fiber I/O port. 29 30 Apparatus of Claim 3 wherein said I/O port is a 5. 31 modem. 32 33 ъ. Apparatus of Claim 3 wherein said I/O port is a 34 microwave transpeiver. 35 36 7. Apparatus of Claim 3 wherein said I/O port 37 transmits and receives data corresponding to said video 38 - 22 -

by Sec.

4

5 6

7

8

9

10

11

12

13

14

15 16

17

18

19

20

21 22

23

24

25

26 27

28

29

30

31

32

33

34

35

36

CPP/M-914

and

signal at an accelerated rate.

 Apparatus of Claim 1 wherein said first means compresses said digitized video signal prior to storage in said memory means.

9. Apparatus comprising: _________ means for receiving an analog audio signal; means for digitizing said analog audio signal, thereby generating digital data corresponding to said audio signal and for compressing said digitized data; means for storing said compressed digital data;

transceiver means for transmitting said compressed digital data.

10. Apparatus of Claim 9 wherein said transceiver means also receives and stores compressed digital data in said means for storing, said apparatus also including means for converting the data stored in said means for storing into an analog audio signal.

11. Apparatus of Claim 10 wherein the time required by said transceiver means to transmit or receive said compressed digital data is less than the time required to monitor the audio signal corresponding to said data.

12. Apparatus comprising: 🗸

first means for receiving and converting an analog video signal to a digital video signal;

second means for storing said digital video signal, wherein said first means also receives said digital video signal back from said second means and reconverts said digital video signal back to an analog video signal for viewing;

third means for storing data; and fourth means for transferring said digital video signal from said second means to said third means,

- 23 -

37 38

2 3

4

5

6

7

8

9

10 11

12

13

14 15

16

17

18 19

20

21

22 23

24

25

26

27

28

29

30

31

32

33

34

35

36 37

38

hustri

CPP/M-914

thereby makng said second means available for receiving and storing additional digital video signals.

13. Apparatus of Claim 12 wherein said first means also compresses data, so that said digital video signal is a compressed video signal, and wherein said third means is a video tape cassette capable of receiving said digital video signal from said second means, and third means also being capable of receiving and storing said reconverted analog video signal from said first means.

14. Apparatus of Claim 12 wherein said third means is remote from said first and second means and said fourth means comprises a microwave transceiver.

15. Apparatus of Claim 12 wherein said third means is remote from said first and second means and said fourth means comprises an optical fiber.

16. Apparatus of Claim 12 wherein said third and fourth means is remote from said first and second means and said fourth means comprises a telephone line.

17. Apparatus comprising

first means for receiving and donverting an analog audio signal to a digital audio signal;

second means for storing said digital audio signal, wherein said first means also receives said digital audio signal from said second means and reconverts said digital audio signal back to an analog audio signal for listening;

third means for storing data; and

fourth means for transferring said digital audio signal from said second means to said third means, thereby making said second means available for receiving and storing additional digital audio signals.

18. Apparatus of Claim 17 wherein said first means

- 24 -

3

4

5

6 7

8

9

10 11

15

16

17

18 19

20

21

22

23

24

25

26 27

28

29

30

31

32 33

34

35

36

CPP/M-914

also compresses data, so that said digital audio signal is a compressed digital audio signal, and wherein said third means is a audio tape cassette capable of receiving said digital audio signal from said second means, and third means also being capable of receiving and storing said reconverted analog audio signal from said first means.

19. Apparatus of Claim 17 wherein said third means is remote from said first and second means and said fourth means comprises a microwave transceiver.

12 20. Apparatus of Claim 17 wherein said third means is 13 remote from said first and second means and said fourth 14 means comprises an optical fiber.

21. Apparatus of Claim 17 wherein said third and fourth means is remote from said first and second means and said fourth means comprises a telephone line.

22. Apparatus comprising:

receiving means for receiving and storing an audio signal in a first memory means during a first time period;

communication means for communicating said stored audio signal during a second time period substantially less than said first time period.

23. Apparatus of Claim 22 wherein said receiving means converts said received audro signal from an analog to digital format prior to storage, and said communication means transmits said stored audio signal to a location remote from said apparatus.

24. Apparatus comprising:

receiving means for receiving and storing an audio signal in a first memory means during a first time period;

37 38

- 25 -

means for providing said stored audio signal to a

APBU-00000169

1

L. Sec

CPP/M-914

speaker so that said signal can be listened to during a second time period substantially greater than said first time period. 25. Apparatus of Claim 24 wherein said receiving means receives said audio signal in digital format and converts said received audio signal from said digital format to an analog format, said receiving means receiving said audio signal from a location remote from said apparatus.

- 26 -

3

4 5

6

20

27

28

29 30

11.

CPP/M-914

AUDIO/VIDEO RECORDER/TRANSCEIVER

Richard A. Lang

ABSTRACT OF THE DISCLOSURE

••••

7 An improved video recorder/transceiver with expanded 8 functionality ("VCR-ET") including a capability for storing 9 video and video programs in digital format, editing such 10 programs, transferring such programs onto a hard copy 11 magnetic media, and transmitting such programs to a remote 12 location using a second VCR-ET. The increased functionality 13 is realized through the use of analog to digital conversion, 14 signal compression and intermediate storage in an integrated 15 circuit, random access memory. The recorder/transmitter has 16 capabilities to transmit and receive program information in 17 either a compressed or decompressed format over fiber optic 18 lines, conventional phone lines or microwaves. 19

I hereby certify that this comes d CED (bo United States 200 a teles C Postal Service as express mell in an a Patents and Trademerits. Washingt 2 06 19_2 . Exoress Mail Ones Date of Signature

27 -

APBU-00000171

CPM/M914-DEC

Docket No.: M-914 US

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (If only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "AUDIO/VIDEO RECORDER/TRANSCEIVER" the specification of which

(check one) {XX} is attached hereto.
 [] was filed

on as Application Serial No.

and was amended

on _____ (if applicable).

(Country)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filling date before that of the application on which priority is claimed;

Prior Foreign Application(s)

n/a

hall

(Number)

(Day/Month/Year Filed)

I hereby claim the benefit under title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, 1 acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations,

- 1 -

CPM/M914-DEC

Ludi

 $\S1.56(a)$ which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

07/289,776	12/27/88	Pending		
(Serial No.)	(Filing Date)	(Status-patented, pe	nding, abandoned)	

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Alan H. MacPherson (24,423); Thomas S. MacDonald (17,774); Richard Franklin (19,128); Kenneth E. Leeds (30,566); Walter J. Madgan, Jr., (16,661); Nathan N. Kailman (19,405); Paul J. Winfers (25,246); Brian D. Ogonowsky (31,988); Edel M. Young (32,451); David W. Heid (25,875); Gideon Gimlan (31,955); Guy W. Shoup (26,805); Stephen L. Malaska (32,655); Forrest E. Gunnison (32,899); and Norman K. Klivans (33,003).

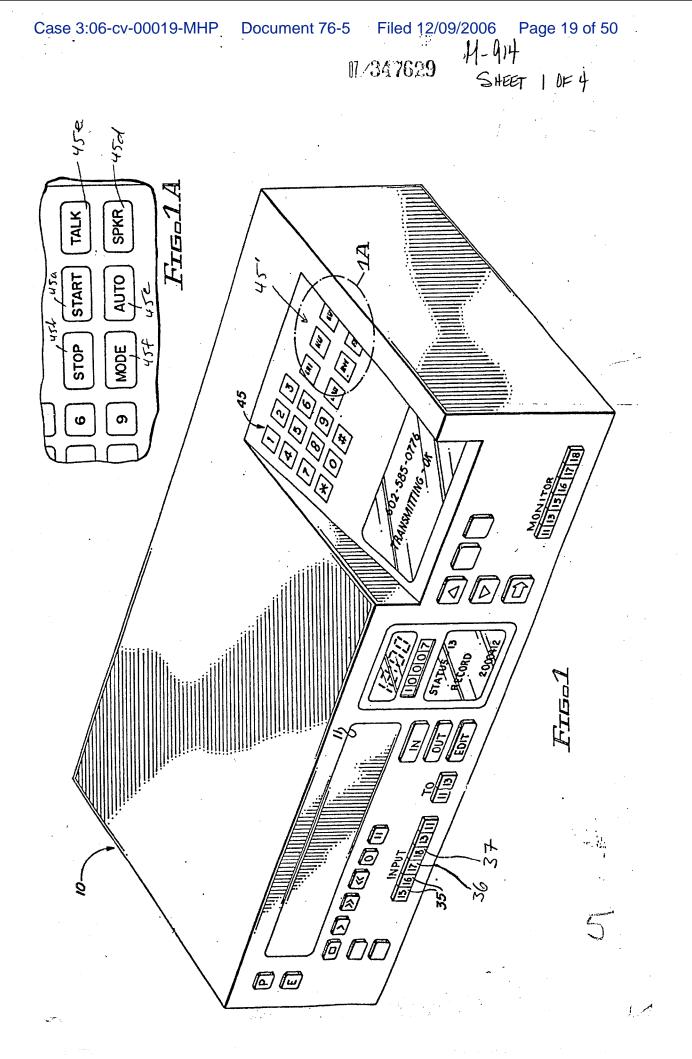
Address all	telephone calls to Kenneth E. Leeds	
	at telephone no. (408) 283-1222	
Address all	correspondence to,) Kenneth E. Leeds	
	(1" SKJERVEN, MORRILL, MacPHERSON,	
	FRANKLIN & FRIEL	
	25 METRO DRIVE, SUITE 700	
	SAN JOSE, CALIFORNIA 95110	
	, , , , , , , , , , , , , , , , , , , ,	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful faise statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful faise statements may jeopardize the validity of the application or any patent jesued thereon.

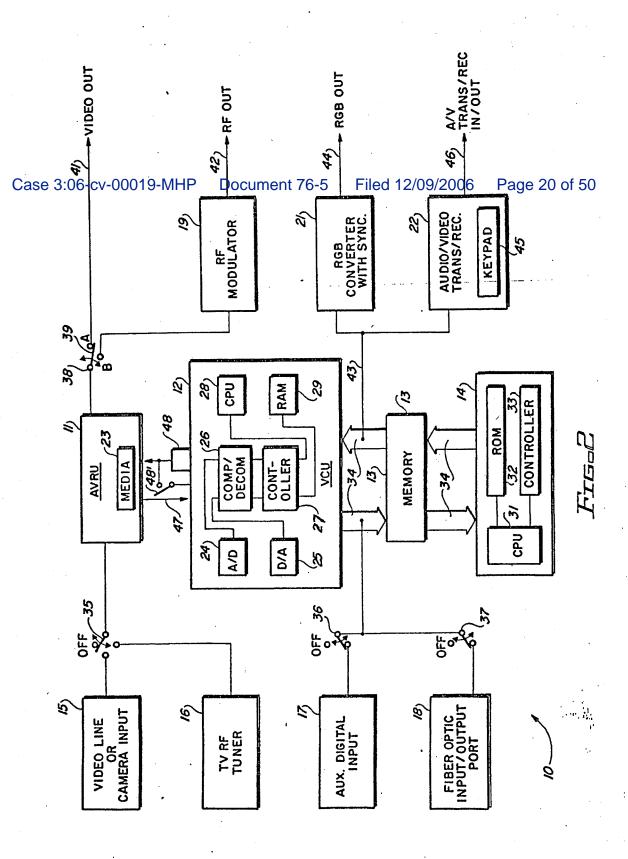
Full name of sole or first inventor RICHARD A, LANG	
Inventor's signature	Date
Residence Cave Creek, Arizona / 2	Citizenship United
States	•••
Post Office Address HC 04, Box 10560, Cave Creek, Arizona 85331	,

t hereby certify that this correspondence a being deposited with the United States Postal Service as express mail in an envelope addressed to: Commissioner of Patents and Trademarks. Washington, D.C. 20231, on HAU 5 19 00 - Express Mail Receipt No. 500 949, 403

8 К Date of Signature



17347629 M-914 SHEET 2 OF 4



6.25

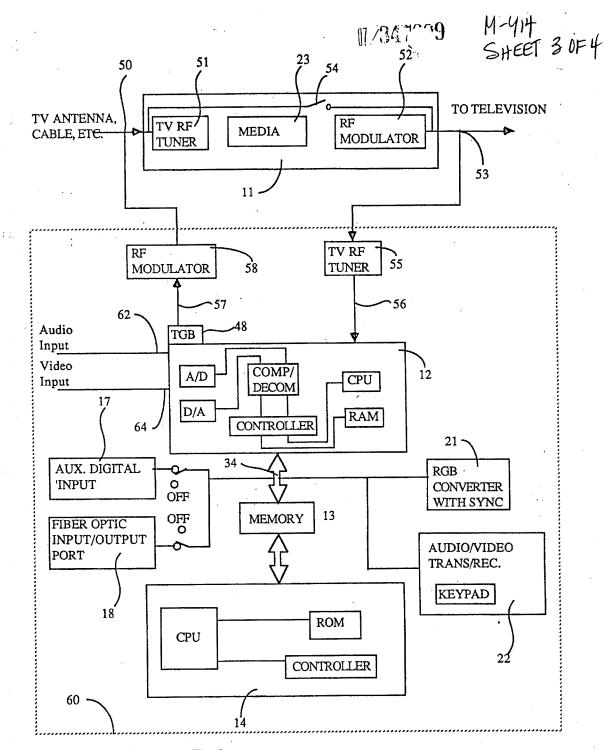
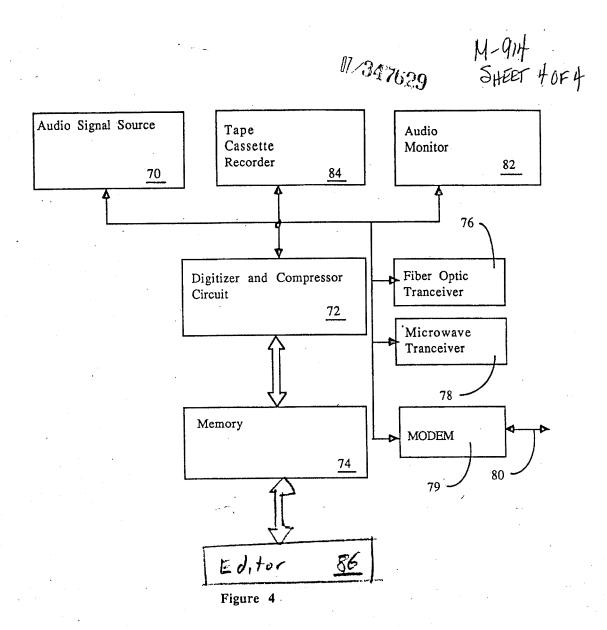
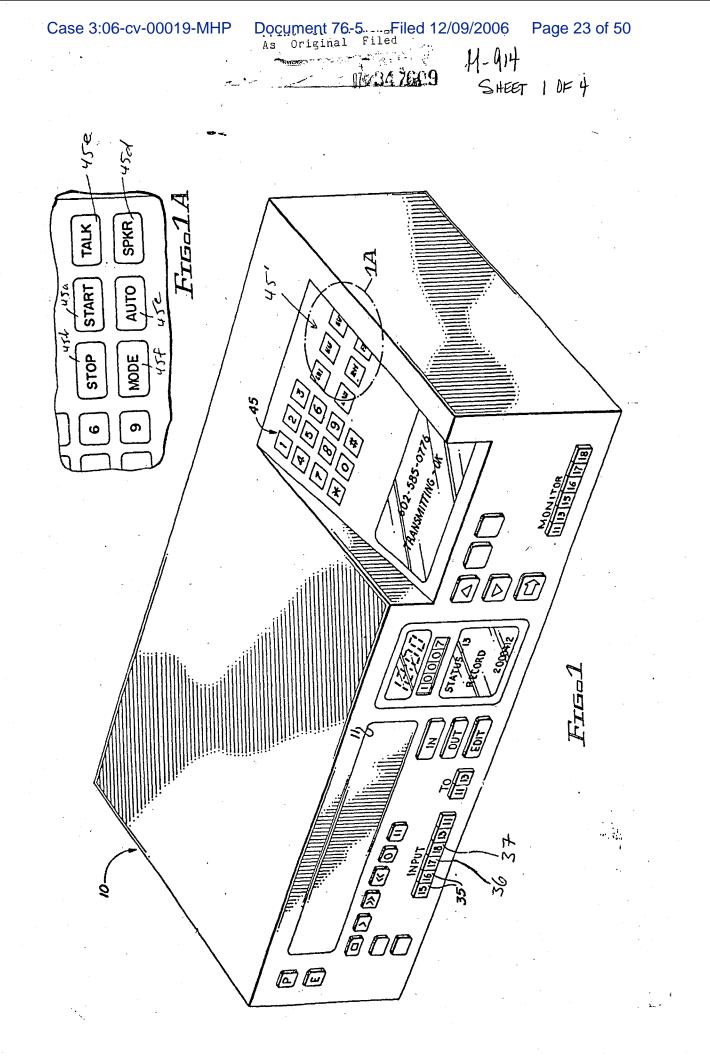


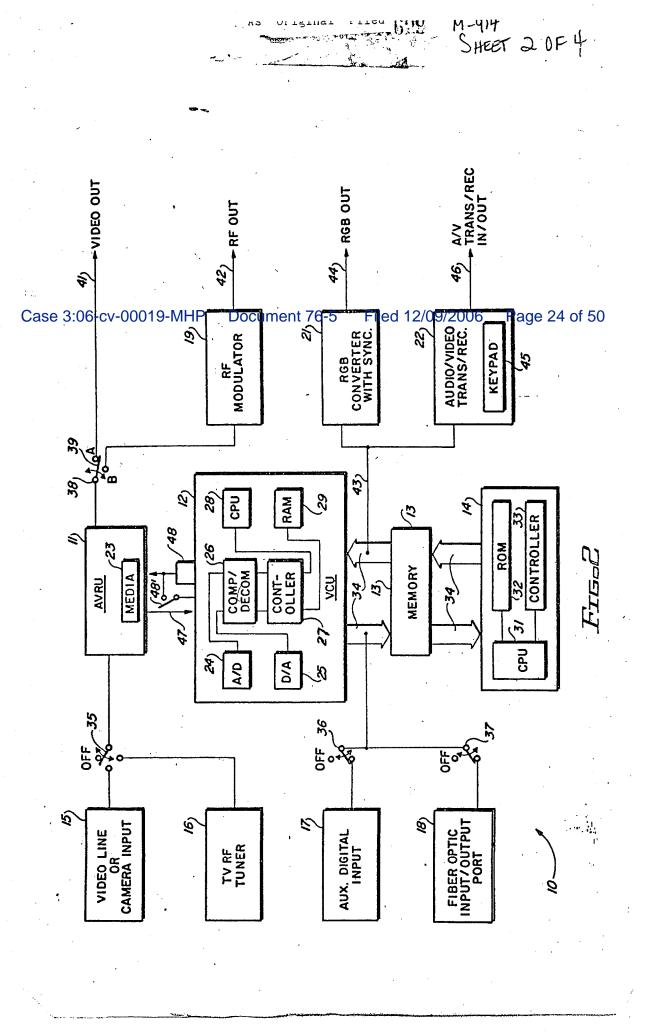
Fig. 3

، بر بدغور رو ا

ł







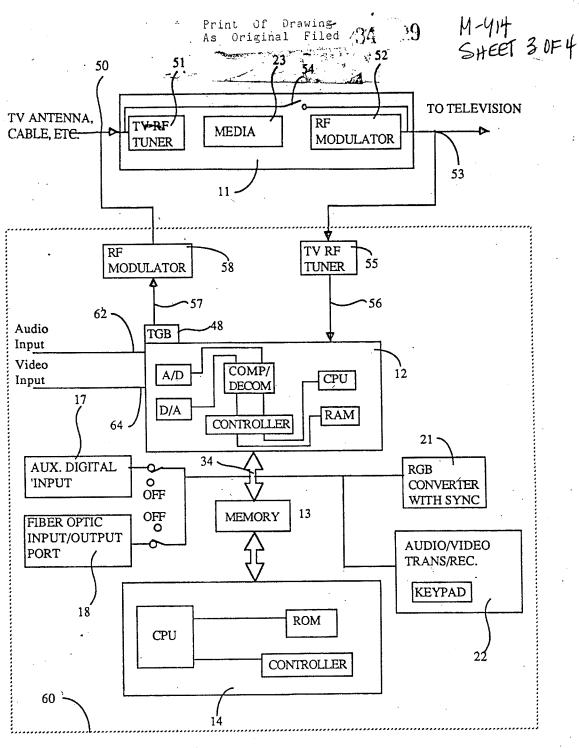
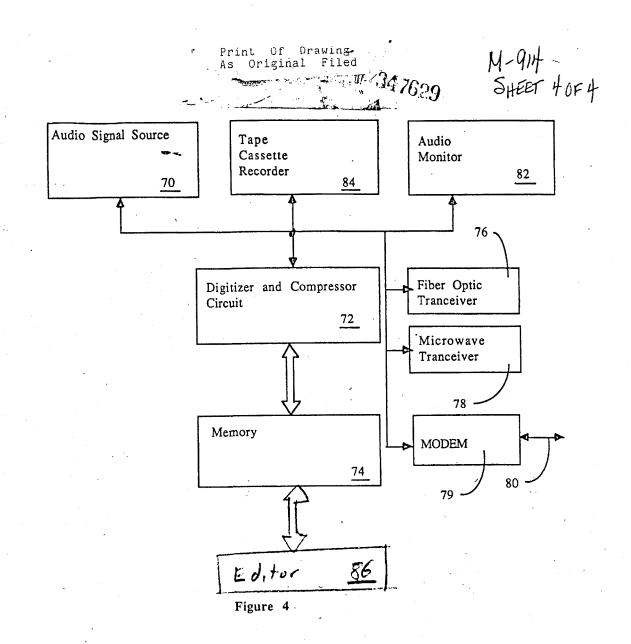


Fig. 3

ĝ



17/347629



Lyster

LAW OFFICES OF SK,_KVI, N, MORRILL, MACPHERSON, FRAN, Lin & FRIEL 25 metro drive, suite 700 San Jose, California 95110 (408) 283-1222

> TWX: 9103382094 • TELECOPIER: (408) 283-1233

601 MONTGOMERY, SUITE 1900 SAN FRANCISCO, CALIFORNIA 94111 (415) 986-8383 TELECOPIER: (415) 982-7372

May 5, 1989

Our Case Docket No. M-914 US

Commissioner of Patents and Trademarks San Jose Washington, D. C. 20231

Transmitted herewith for filing is a patent application, as follows:

Inventor	:	Richard A. Lang
Title:		"AUDIO/VIDEO RECORDER/TRANSCEIVER"

Enclosed also are:

4 Sheets of drawings: ____ (Formal) XX (Informal)

1997 - A.			CL	AIMS AS	FILED			
For	Number Filed		÷	Number <u>Extra</u>		<u>Rate</u>	-	asic Fee <u>370.00</u>
fotal Claims	25	-20	` <u> </u>	5		x \$12	=	\$ 60.00
Independent Claims	б.	- 3	=	3		x_\$ <u>3</u> 6	=	\$108.00
	eation cont lent claims				nultipl	.e	=	0
					Total	Filing	Fee:	\$ 538.00

Please make the following charges to Deposit Account 19-2386:

XXFee for filing the patent application in the amount of\$ 538.00______Fee for recording the Assignment in the amount of\$ ______XXThe Commissioner is hereby authorized to charge any additionalfees which may be required, or credit any overpayment to DepositAccount 19-2386.

A Return Receipt Postcard and duplicate copy of this sheet are enclosed.

I hereby certify that this correspond Postal Service as express mall in Patents and Trademarks. Washington 19 Express Mail Receipt N	an envelope addressed D.C. 20231, on UC	with the United States to: Commissioner of AU
19 - 19 - Express Mail Receipt N 5/5/89	Maren	Ferrar

Respectfully submitted, th Kenneth E. Leeds Reg. No. 30,566

Attorney for Applicant

Date of Signature

CPM/tM-914

PATENT APPLICATION SERIAL NO. U.S. DEPARTMENT OF COMMERCE FATENT AND TRADEMARK OFFICE FEE RECORD SHEET

6 11097 05/09/89 347629	19-2386	110	20 101	538.00CH
, 5-20165 07/05/00 347620	19-2384 020	101		530.00CR
6-20168 07/05/00 367629	19-2386 020	201		269.00CH

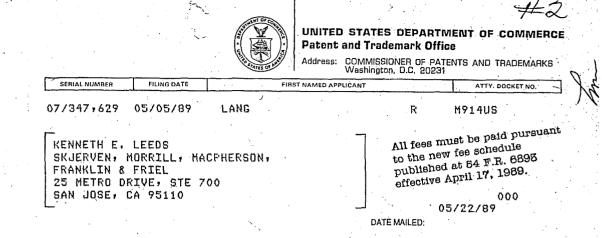
PTO-1556 (5/87)

ţ

Case 3:06-cv-00019-MHP

Document 76-5 Filed 12/09/2006

Page 29 of 50



NOTICE TO FILE MISSING PARTS OF APPLICATION-FILING DATE GRANTED

A filing date has been granted to this application. However, the following parts are missing.

If all missing parts are filed within the period set below, the total amount owed by applicant as a \mathcal{A} large entity, \Box small entity (verified statement filed), is \mathcal{A} .

- 1. □ The statutory basic filing fee is: □ missing. □ insufficient. Applicant as a □ large entity, □ small entity, must submit \$______ to complete the basic filing fee and MUST ALSO SUBMIT. □ small entity, must submit \$_____ to complete THE SURCHARGE AS INDICATED BELOW.
- 2. 🗆 Additional claim fees of \$ _ _ as a 🗋 large entity, 🗖 small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.
- 3. \Box The oath or declaration:

 \Box is missing.

Inita

does not cover items omitted at the time of execution.

An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.

- 4. □ The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63 identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
- 5. If The signature to the oath or declaration is: I missing; □ a reproduction; □ by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
- 6. D The signature of the following joint inventor(s) is missing from the oath or declaration:
 - Applicant(s) should provide, if possible an oath or declaration signed by the omitted inventor(s), identifying this application by the above Serial Number and Filing Date. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
- 7. \Box The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$26.00 under 37 CFR 1.17(k), unless this fee has already been paid NO SURCHARGE UNDER 37 CFR 1.16(e) IS REQUIRED FOR THIS ITEM,
- 8. A \$20.00 processing fee is required for returned checks. (37 CFR1.21(m)).

9. D Your filing receipt was mailed in error because check was returned.

10. **D** Other:

A Serial Number and Filing Date have been assigned to this application. However, to avoid abandonment under 37 CFR 1.53(d), the missing parts and fees identified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE OF \$110.00 for large entities or \$55.00 for small entities who have filed a verified statement claiming such status. The surcharge is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

Direct the response to, and any questions about, this notice to the undersigned, Attention: Application Branch

A copy of this notice MUST be returned with response.

m. Ballmith	A	For Office Use Only		
	, ,			
For: Manager, Application Branch		103 20		
(703) 557-3254 V	•			
FORM PTO-1533 (REV, 7-87)	OFFICE COPY	□ 105 □ 20		
		and the second se		

APBU-00000184



I. Sai

CPO/M-914-DEC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Richard Lang Title: "AUDIO/VIDEO RECORDER/TRANSCEIVER" Serial No.: 07/347.,629

+ 1

Filed: 05/05/89

Attorney Docket No.: M-914 US

San Jose, California June 13, 1989

Raper# A

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231

Dear Sir:

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

On May 26, 1989, Applicant received a "Notice to File Missing Parts of Application - Filing Date Granted" from the U.S. Patent and Trademark Office (copy enclosed), instructing Applicant to file an oath or a declaration in the U.S. Patent and Trademark Office.

Attached hereto is a Declaration For Patent Application signed by Applicant. Also attached is an Independent Inventor's Declaration signed by Applicant.

The Commissioner is respectfully requested to deduct the sum of \$60.00 from deposit account 19-2386, and any other sums required for this Application.

If the Application Branch has any questions regarding this matter, please contact the undersigned attorney at (408)

19-2386 010 205

283-1222. N 10464 06/21/89 347629

25 METRO DRIVE BUITE 700 BAN JOBE, CA 95110

(408) 283-1222

60.00CH

I hereby certify that this ecrease and can be being deposited with the United States Postal Service of fart data and in an envelope addressed to: Commissioner of naria, Washington, D.C., 20231, ca Patents and Trad 19. 12 Ĥ. X ARC VX '3 June Attorney for Applicant Date of Signature LAW OFFICES OF SKJERVEN, MORRILL. MACPHERSON. FRANKLIN & FRIEL

Respectfully submitted,

Kenneth E. Leeds Attorney for Applicants Registration Number 30,566

President of the Alling

JUN 2 1 1080

APPELICION WINNESS

294 N. V. Y	POIN
K y	
INT 1	CPORM-914-DEC
(Le)	(AO[_111]

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Richard Lang			
Title:	"AUDIO/VIDEO RECORDER/TRA	ANSCEIVER"		
Serial No.:	07/347,629	Filed: 05/05/89		
Attorney Docket No.: M-914 US				

San Jose, California June 13, 1989

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231

Dear Sir:

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

On May 26, 1989, Applicant received a "Notice to File Missing Parts of Application - Filing Date Granted" from the U.S. Patent and Trademark Office (copy enclosed), instructing Applicant to file an oath or a declaration in the U.S. Patent and Trademark Office.

Attached hereto is a Declaration For Patent Application signed by Applicant. Also attached is an Independent Inventor's Declaration signed by Applicant.

The Commissioner is respectfully requested to deduct the sum of \$60.00 from deposit account 19-2386, and any other sums required for this Application.

If the Application Branch has any questions regarding this matter, please contact the undersigned attorney at (408) 283-1222.

NOI

1989

1emet

Atterney for Applicant

Respectfully submitted,

Kenneth E. Leeds Attorney for Applicants Registration Number 30,566

Date of Signature LAW DFFICER OF SKJERVEN, MORRILL, ACPHEREON, FRANKLIN & FRIEL 28 METRO DRIVE SUITE 700 BAN JOSE, CA 93110

JINE

3

Filed 12/09/2006

Page 32 of 50

aper #3

APBU-00000187

CPM/M914-DEC



highlin

Docket No.: M-914 US

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>"AUDIO/VIDEO RECORDER/TRANSCEIVER"</u> the specification of which

(check one) [] is attached hereto. [XX] was filed

on <u>May 5, 1989</u> as Application Serial No. <u>07/347,629</u>

(Country)

and was amended

on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

n/a (Number)

(Day/Month/Year Filed)

I hereby claim the benefit under title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, 1 acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations,

~ 1 -

APBU-00000188

CPM/M914-DEC

§1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

07/289,776	12/27/88	Pending			
(Serial No.)	(Filing Date)	(Status-patented,	pending,	abandoned)	

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Alan H. MacPherson (24,423); Thomas S. MacDonald (17,774); Richard Franklin (19,128); Kenneth E. Leeds (30,566); Walter J. Madden, Jr., (16,661); Nathan N. Kallman (19,405); Paul J. Winters (25,246); Brian D. Ogonowsky (31,988); Edel M. Young (32,451); David W. Heid (25,875); Gideon Gimian (31,955); Guy W. Shoup (26,805); Stephen L. Malaska (32,655); Forrest E. Gunnison (32,899); and Norman K. Klivans 30.3 (33,003).

Address al	I telephone calls to Kenneth E. Leeds
	at telephone no. (408) 283-1222
Address al	I correspondence to Kenneth E. Leeds
	102 SKJERVEN, MORRILL, MacPHERSON,
	FRANKLIN & FRIEL
	701 25 METRO DRIVE, SUITE 700
	102SAN JOSE, CALIFORNIA 95110

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	~ · · ·	0		
Full name of sole or t	irst inventor	BLCHARD A. LANG	/ ./	
Inventor's signature	1470	OK I X	Date 6/5/89	
Residence Cave Creek	APIzona	12/0	Citizenship United Sta	tes
Post Office Address		it., Cave Creek, Arizon	a 85331	*

Case 3:06-cv-00019-MHP Document 76-5

CPO/M914-PTO4



hand

Applicant: Richard Lang

07/347,629

Date Filed: May 5, 1989

"AUDIO/VIDEO RECORDER/TRANSCEIVER" Title:

M-914 US Docket No .:

> San Jose, California May __, 1989

PATENT

Aupen #

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, D.C. 20231

INDEPENDENT INVENTOR'S DECLARATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Dear Sir:

Serial No:

The undersigned Applicant for the above application hereby states in accordance with 37 CFR Sections 1.9 and 1.27 that he is an independent inventor who has not assigned, granted, conveyed or licensed, and who is under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention described in the above application to any person who could not likewise be classified as an independent inventor if that person had made the invention, or to any concern who would not qualify as a Small Business Concern or a non-profit organization under 37 CFR Section 1.9 (C).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Applicant

Richard A. Lang Address: 29209 N. 56th St. Cave Creek, Arizona 85331

LAW OFFICES OF KJERVEN, MORRILI MACPHERSON, FRANKLIN & FRIEL 25 METRO DRIVE SUITE 700 BAN JOBE, CA 95110 (408) 283-1222

•••

Page 35 of 50

	n				
PHONE P	230 20				
JUN	DCPO/M-914-REF PATENT TO PATENT				
$ \begin{array}{ccc} 32 & 19 \\ -2 & 1989 \end{array} $	\$ 5 F 4 4				
STRADE N	IN THE UNITED STATES PATENT AND TRADEMARK OFFICE				
· · · · · · · · · · · ·	Applicant: Richard Lang RECEIVED				
	Title: "Audio/Video Recorder/Transceiver" AUG 0 9 1989				
	Serial No.: 07/347,629 Filed: 05/05/89 GROUP 230				
	Attorney Docket No.: M-914 US	7			
r fe	San Jose, California	-			
	June 13, 1989				
-	COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231				
	Attention: Refund Section Accounting Division, RECEIVED Office of Finance				
	REQUEST FOR REFUND				
	RE SMALL ENTITY STATUS GROUP 230				
	Dear Sir:				
	Enclosed is a copy of an Independent Inventor's				
	Declaration indicating that Applicant qualifies as an				
·	independent inventor under 36 C.F.R. Sections 1.9 and 1.27.				
	The original Independent Inventor's Declaration is concurrently				
	being submitted to the Examiner in the above-identified				
	application. In accordance with the Applicant's transmittal				
	letter which accompanied the above-mentioned patent application				
	(copy enclosed), Applicant requested that a \$370.00 basic fee, plus \$168.00 for extra total claims be charged to Deposit				
	Account No. 19-2386. Accordingly, Applicant respectfully				
	requests that the amount of \$269.00 (one half of the basic fee				
	and one half of the extra claim fee) be refunded to Deposit				
	Account No. 19-2386, as provided by the Manual of Patent				
	Examining Procedures Section 509.03 and by the Official Gazette				
	Notices published October 26, 1982 at 1023 O.G. 77 and February				
	15, 1983 at 1027 O.G. 115 as attached hereto.				
	(desta a				
Х •	Felen (Presidente)				
KJERVEN, MORRILL. PHERSON, FRANKLIN & FRIEL	APPLICATION Draweth				

SKJERVEN, MORRILL, MACPHERSON, FRANKLIN & FRIEL 25 METRO DRIVE BUITE 700 SAN JOSE, CA 95110 (405) 203-1222

hall

CPO/M-914-REF

PATENT

If there are any questions regarding this refund, Applicant respectfully requests the Patent Office personnel to telephone Applicant's attorney at (408)283-1222.

Respectfully submitted,

the E heed C

Kenneth E. Leeds Attorney for Applicant Registration No. 30,566

Jone 13 9 89 Date of Signature

heed Altencey for Applicant

LAW DIFFIGES OF SKJERVEN, MORRILL, 1ACPHERSON, FRANKLIN & FRIEL 25 METRO DHIVE BUITE 700 BAN 1035 CA 85110 (408) 283-1922

 $2 \frac{1}{2} \frac{1}{2}$

	44.		
		4	·
"			ł
-			
-			
1	Official Gazette Notice published October 26, 198	32:	
2			•
2	·		
З	Official Gyzette Notice		
			Ť I
·4	Filing Of Verified Statements Claiming Small Entity Status	•	
5	In view of the fact that the rules implementing the definition of		
r.,	small business concern were not published in the Federal Register	•	
6	until September 30, 1982, any verified statement claiming small		
. 7	entity status will be accepted as timely filed if (1) the first		
_	fee in a patent application has been paid on or after October 1,		
. 8	1982, but before February 27, 1983, in the amount established for		
. 9	a non-small entity and (2) such verified statement is filed within 3 months of the date of payment of the first fee in a		
	patent application paid on or after October 1, 1982, but before		
10	February 27, 1983. If such a verified statement is timely filed		
11	within three months of the date of payment of the first fee paid		
	on or after October 1, 1982, but before February 27, 1983, the		
12	statement will be treated as though it were present on the date the fee was paid. The correct amount of the fee will be	·	
13	determined and any excess will be refunded upon request. Section		
- <u>-</u> -	1.28(a) of 37 CFR is waived until February 27, 1983 to the extent		
14	. it is inconsistent with this practice.		
15	A UD3		
16	10-15-82 Donald J. Quigg	1	
	Acting Commissioner of Patents & Trademarks		
17	1023 DG 77		a the second sec
18			
	Official Gazette Notice published February 15, 1	983:	
19	Official Gazette Notice published repracif is,		
20		•	
	Requirement for Filing of Verified Statements Claiming		
21	Small Entity Status		
22	The purpose of this notice is to supplement the notice published Oct. 26, 1982 at 1023 O.G. 77, entitled "Filing		
	of Verified Statements Claiming Small Entity Status" and to extend the practice contained therein beyond		
23	Feb. 27, 1983, pending consideration by the Patent and Trademark Office of the feasibility of implementing via		
24	the rulemaking process, a practice similar to that set forth in the notice.		
	The notice published Oct. 26, 1982 provides in part, that any verified statement claiming small entity status		
25	will be accepted as timely filed if (1) the first fee in a pa- tent application has been paid on or after Oct. 1, 1982,		
26	but before Feb. 27, 1983, in the amount established for a non-small entity and (2) such venified statement is filed		
	within three months of the date of payment of the first fee. The practice is hereby extended to a first fee paid		
, 27	after Feb. 27, 1983. Until further notice, if a ventiled statement is filed within three months of the date of pay-		
28	ment of the first fee paid after Feb. 27, 1983, the state- ment will be treated as though it were present on the		
20	date the fee was paid. The correct amount of the fee will be determined and any excess will be refunded upon		
29	request. Request for refunds, along with the verified state-		
30	ments, should be addressed to the Commissioner of Pa- tents and Trademarks, Washington, D.C. 20231, and di-		
20	rected to the attention of the Refund Section, Accounting Division, Office of Finance, Such requests		`
31	should refer to this notice. The practice presently in effect is hereby extended un-		
	til further notice. The extension will provide applicants additional time pursuant to this notice and provide the	•	
32	Office the time to consider the feasibility of a possible rule change.		÷.
SKJERVEN, MORRILL.	DONALD J. QUIGG,		
AACPHERSON, FRANKLIN & FRIEL	Jan. 20, 1983. Acting Commissioner of Patents and Trademarks.	٠	
3600 PPUN1FICGE Suite 105		• · ·	}
INTA CLARA. CA 950	51		

112

MAIL		
32	IN THECHIVED	
	89 CPR/M-914-REF AUG D 9 1989 PATENT	
XEAD.	GROUP 230	
	IN THE UNITED STATES PATENT AND TRADEMARK OFFICE	
	Applicant: Richard Lang	
	Title: "Audio/Video Recorder/Transceiver"	
	Serial No.: 07/347,629 Filed: 05/05/89	•
	Attorney Docket No.: M-914 US	
	San Jose, California June 13, 1989	
	COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231	
	Attention: Refund Section Accounting Division, Office of Finance	
	REQUEST FOR REFUND RE SMALL ENTITY STATUS	
	Dear Sir:	
	Enclosed is a copy of an Independent Inventor's Declaration indicating that Applicant qualifies as an	
	independent inventor under 36 C.F.R. Sections 1.9 and 1.27.	
	The original Independent Inventor's Declaration is concurrently	
	being submitted to the Examiner in the above-identified	
	application. In accordance with the Applicant's transmittal	
	letter which accompanied the above-mentioned patent application	
	(copy enclosed), Applicant requested that a \$370.00 basic fee,	
	plus \$168.00 for extra total claims be charged to Deposit	
	Account No. 19-2386. Accordingly, Applicant respectfully	
	requests that the amount of \$269.00 (one half of the basic fee	
	and one half of the extra claim fee) be refunded to Deposit	
	Account No. 19-2386, as provided by the Manual of Patent	
	Examining Procedures Section 509.03 and by the Official Gazette	•
	Notices published October 26, 1982 at 1023 O.G. 77 and February	İ
	15, 1983 at 1027 O.G. 115 as attached hereto.	

LAW OFFICER OF LAW OFFICER OF SKJERVEN, MORRILL. AACPHERSON, FRANKLIN Å FRIEL 23 METRO DNIVE SUITE 700 SAN JOSE, CA 95110 (408) 203-1222

٠,

1.000

CPO/M-914-REF

PATENT

If there are any questions regarding this refund, Applicant respectfully requests the Patent Office personnel to telephone Applicant's attorney at (408)283-1222.

Respectfully submitted,

ts E hered KO.

Kenneth E. Leeds Attorney for Applicant Registration No. 30,566

C

heed

I hereby certify that this economications is being departies with the United States Postal Service as first data with the contractor at Complisioner of Patents and Trademarks. Washington, D.G., 2023), pp.

Jone 13, 1989 Date of Signature

Ũ Attennoy fer Applicant

LAW BIFICES OF SKJERVEN, MORRILL AACHERSON, FRANKLIN À FRIEL 28 METRO DRIVE SUITE 700 SAN JOSE, CA 8510 (408) 283-1222

(406) 2454405

Official Gazette Notice published October 26, 1982: 1 2 З Official Gazette Notice 4 Filing Of Verified Statements Claiming Small Entity Status 5 In view of the fact that the rules implementing the definition of small business concern wore not published in the Federal Register 6 until September 30, 1982, any verified statement claiming small entity status will be accepted as timely filed if (1) the first 7 fee in a patent application has been paid on or after October 1, 1982, but before February 27, 1983, in the amount established for 8 a non-small entity and (2) such verified statement is filed 9 within 3 months of the date of payment of the first fee in a patent application paid on or after October 1, 1982, but before 10 February 27, 1983. If such a verified statement is timely filed within three months of the date of payment of the first fee paid 11 on or after October 1, 1982, but before February 27, 1983, the statement will be treated as though it were present on the date 12 the fee was paid. The correct amount of the/fee will be determined and any excess will be refunded upon request. Section 13 1.28(a) of 37 CFR is waived until February 27, 1983 to the extent 14 it is inconsistent with this practice. 15 10-15-82 16 Date Donald J. Ouigo Acting Commissioner of Patents & Trademarks 17 1023 OC 77 18 Official Gazette Notice published February 15, 1983: 19 20 Requirement for Fillng of Verified Statements Claiming Small Entity Status 21 Small Entity Status The putpose of this notice is to supplement the notice published Oct. 26, 1982 at 1023 O.G. 77, entitled "Filing of Verified Statements Claiming Small Entity Status" and to extend the practice contained therein beyond Feb. 27, 1983, pending consideration by the Patent and Trademark Office of the feasibility of implementing via the rulemaking process, a practice similar to that set forth in the notice. The notice published Oct. 26, 1982 provides in part, that any verified statement claiming small entity status will be accepted as timely filed if (1) the first fee in a pa-tent application has been paid on or after Oct. 1, 1982, but before Feb. 27, 1983, in the amount established for a non-small entity and (2) such verified statement is filed within three months of the date of payment of the first fee. The practice is hereby extended to a first fee paid after Feb. 27, 1983, Until further notice, if a verified statement is filed within three months of the date of pay-ment of the first fee paid after Feb. 27, 1983, Until further notice, if a verified statement will be treated as though it were present on the date the fee was paid. The correct amount of the fars will be determined and any excess will be refunded upon request. Request for refunds, along with the verified statement 22 23 24 25 26 27 28 will be determined and any excess will be refunded upon request. Request for refunds, along with the verified state-ments, should be addressed to the Commissioner of Pa-tents and Trademarks, Washington, D.C. 2021, and di-rected to the attention of the Refund Section, Accounting Division, Office of Finance. Such requests should refer to this notice. The practice presently in effect is hereby extended un-til further notice. The extension will provide applicants additional time pursuant to this notice and provide the Office the time to consider the feasibility of a possible rule change. 29 30 31 32 rule change. LAW CIFICES OF DONALD J. QUIGG. SKJERVEN, MOBRILL, IACPHERSON, FRANKLIN & FRIEL Jan. 20, 1983. Acting Commissioner of Patents and Trademarks 3600 PRUNERICOL SUITE ICC NTA CLARA, CA 95051

APBU-00000195

÷,

Case 3:06-cv-00019-MHP

hijika

Document 76-5

Filed 12/09/2006

Page 41 of 50

C



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Richard Lang		
Title:	"Audio/Video Recorder/Tr	ansceive	r"
Serial No.:	07/347,629	Filed:	05/05/89
Attorney Docke	t No.: M-914 US		

San Jose, California June 13, 1989

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231

Attention:

Refund Section Accounting Division, Office of Finance

> REQUEST FOR REFUND RE SMALL ENTITY STATUS

Dear Sir:

Enclosed is a copy of an Independent Inventor's Declaration indicating that Applicant qualifies as an independent inventor under 36 C.F.R. Sections 1.9 and 1.27. The original Independent Inventor's Declaration is concurrently being submitted to the Examiner in the above-identified application. In accordance with the Applicant's transmittal letter which accompanied the above-mentioned patent application (copy enclosed), Applicant requested that a \$370.00 basic fee, plus \$168.00 for extra total claims be charged to Deposit Account No. 19-2386. Accordingly, Applicant respectfully requests that the amount of \$269.00 (one half of the basic fee and one half of the extra claim fee) be refunded to Deposit Account No. 19-2386, as provided by the Manual of Patent Examining Procedures Section 509.03 and by the Official Gazette Notices published October 26, 1982 at 1023 O.G. 77 and February 15, 1983 at 1027 O.G. 115 as attached hereto.

LAW OFFIGER OF SKJERVEN, MORRILL, JACPHERSON, FRANKLIN & FRIEL 25 METRO DRIVE SUITE 700 SAN JOBE, CA 995110 (408) 283-1222

1 L.

Filed 12/09/2006

Page 42 of 50

CPO/M-914-REF

PATENT

If there are any questions regarding this refund, Applicant respectfully requests the Patent Office personnel to telephone Applicant's attorney at (408)283-1222.

Respectfully submitted,

the E her of Ken

heed

APBU-00000197

Kenneth E. Leeds Attorney for Applicant Registration No. 30,566

I hereby certify that this economerations is being deposited with the United States Postal Service as first class mult to an envelope addressed at Comparisoner of Patents and Trademarks. Washington, D.C., 20231, on ______

Atterney for Apolice

1989

June 13,

Date of Signature

LAW DEFICES OF SKJERVEN, MORRILL. LACPHERSON, FRANKLIN & FRIEL 25 METRO DRIVE BUITE 700 SAN JOBE, CA 05110 (408) 783-1227

Laider

Official Gazette Notice published October 26, 1982: 1 2 З Official Gazette Notico 4 Filing Of Verified Statements Claiming Small Entity Status 5 In view of the fact that the rules implementing the definition of small business concern were not published in the Federal Register 6 until September 30, 1982, any verified statement claiming small entity status will be accepted as timely filed if (1) the first 7 fee in a patent application has been paid on or after October 1, 8 1982, but before February 27, 1983, in the amount established for a non-small entity and (2) such verified statement is filed 9 within 3 months of the date of payment of the first fee in a patent application paid on or after October 1, 1982, but before 10 February 27, 1983. If such a verified statement is timely filed within three months of the date of payment of the first fee paid 11 on or after October 1, 1982, but before February 27, 1983, the statement will be treated as though it ware present on the date 12 the fee was paid. The correct amount of the fee will be determined and any excess will be refunded upon request. Section 13 1.28(a) of 37 CFR is waived until February 27, 1983 to the extent 14 it is inconsistent with this practice. 15 10-15-81 16 Donald J. Quigg Date Acting Commissioner of Patents & Trademarks 17 1023 00 77 18 Official Gazette Notice published February 15, 1983: 19 20 Requirement for Filing of Verified Statements Claiming Small Entity Status 21 The purpose of this notice is to supplement the notice published Oct. 26, 1982 at 1023 O.G. 77, entitled "Filing of Verified Statements Claiming Small Entity Status" and to extend the practice contained therein beyond Feb. 27, 1983, pending consideration by the Patent and Trademark Office of the feasibility of implementing via 22 23 Trademark Office of the feasibility of implementing via the rulemaking process, a practice similar to that set forth in the notice. The notice published Oct. 26, 1982 provides in part, that any verified statement claiming small entity status will be accepted as timely filed if (1) the first fee in a pa-tent application has been paid on or a fier Oct. 1, 1982, but before Feb. 27, 1983, in the amount established for a non-small entity and (2) such verified statement is filed within three months of the date of payment of the first fee. The practice is hereby extended to a first fee paid after Feb. 27, 1983, Until further notice, if a verified statement is filed within three months of the date of pay-ment of the first fee paid after Feb. 27, 1983, the state-ment will be treated as though it were present on the date the fee was paid. The correct amount of the ferst will be determined and any excess will be refunded upon 24 25 26 27 28 date the fee was paid. The correct amount of the fee will be determined and any excess will be refunded upon request. Request for refunds, along with the verified state-ments, should be addressed to the Commissioner of Pa-tents and Trademarks, Washington, D.C. 2021, and di-rected to the attention of the Refund Section, Accounting Division, Office of Finance. Such requests should refer to this notice. The practice presently in effect is hereby extended un-til further notice. The extension will provide tapplicants additional time pursuant to this notice and provide the Office the time to consider the feasibility of a possible rule change. 29 30 31 32 rule change. LAW OFFICES OF DONALD J. QUIGG, Acting Commissioner of Patents and Trademarks. SKJERVEN, NORRILL. Jan. 20, 1983. AACPHERSON, FRANKLIN & FRIEL -----ENITE IOG

				Documer			, 	Page 44 of	
	•			ANT OF CALL	OF THE LINUTE	DETATES		or	
		÷ .			Patent	and Trade	mark Office	OF COMMERCE	
	SERIAL NUMB	ER EU	ING DATE		FIRST NAMED			AND TRADEMARKS	1
•	07/347	، _ج ېنىمىلىمىنىي م	05/05/8	39 L.AN		APPLICANT	<u> Al</u> R	TORNEY DOCKET NO. M914US	
	C KENNET	TH E. L	.EEDS	-	· .		EXAN	AINER	1
n na sea An tha sea		JENF MC LIN & F		MACFHERS	SON ,		SWAYZEYW		•
	25 MET	RO DRI	CVE . STE	200		-	ARTUNIT	PAPER NUMBER	-
	OPIN OI.	NOIELY CAP	95110				235	5	
			·	ť.		D	ATE MAILED:	10101100	
	This is a commun	1 A A A A A A A A A A A A A A A A A A A						12/06/89	
	· ·	COMMISSI	ONER OF PA	TENTS AND TR	ADEMARKS	1. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			÷.
		. * •	· · · · ·	•	<i>1</i>			•	•
This	application has bee	n examinéd	Res	sponsive to comm	nunication filed on	6-19-89	This action	is made final.	
A shorter	ed statutory period	for response	e to this action	is set to expire	THeemonth(s)	davs	from the date of this	letter	
Failure to	o respond within the	period for r	esponse will c	ause the applica	tion to become aba	andoned, 35 U	.S.C. 133		. ș
Part I	THE FOLLOWIN	G ATTACHI	AENT(S) ARE	PART OF THIS	ACTION:				
1 [2	Notice of Referen	nces Cited b	y Examiner, P	TO-892.	2.		rawing, PTO-948.		
3.	_					otice of informat	Patent Application, F	orm PTO-152	
.** [8031				· · ·	· · .
"Part II	SUMMARY OF A	STION		•		, ,			÷.,
1, [<u>L</u>	Claims		1-25	······	· · · · · · · · · · · · · · · · · · ·		are pending i	n the application,	
	Of the abo	ove, claims	·				are withdraw	n from consideration.	
	Claima						have been ca	ncallad	
2.] Claims			••••••••••••••••••••••••••••••••••••••			have been ca	nceneu.	• •
3.] Claims	· · ·			· .	· · ·	are allowed.		
1 5			1-25				are rejected.	ار که مین افراد ا	
	Claims					·	are objected	to.	
5.	- · ·								
5.] Claims			3			at to contriction of a	ation convincent	
5. [6. [- · ·			-3	· ·	are subje	ect to restriction or ele	ection requirement.	
5.	Claims		ed with inform	al drawings whic	ch are acceptable f			ection requirement. e as allowable subject	
5.	Claims Claims Claims This application matter is indicate	ed.			ch are acceptable f	or examination p	urposes until such tim		
5 6 7	Claims Claims This application matter is indicate Allowable subjec	ed. St matter hav	ving been indic	ated, formal drav	wings are required	or examination p In response to th	urposes until such tim	e as allowable subject	
5 6 7 8	Claims Claims This application matter is indicate Allowable subject	ed. ct matter hav substitute d	ring been indic Irawings have l	ated, formal drav	wings are required	or examination p In response to th	urposes until such time is Office action.	e as allowable subject	
5 6 7 8	Claims Claims This application matter is indicate Allowable subjec The corrected or not acceptat	ed. ct matter hav substitute d ble (see expl d drawing co	ving been indic Irawings have I Ianation). prrection and/o	ated, formal drav been received on r thepropos	wings are required	or examination p In response to th 	urposes until such tim is Office action. e drawings are ac of drawings, filed on	e as allowable subject çeptable;	
5. [6. [7. [# 8. [9. [] 10. [Claims Claims This application matter is indicate Allowable subjec The corrected or not acceptab The proposed has (have) been	ed. Substitute d substitute d ole (see expl d drawing co approv	ring been indic Irawings have I lanation). prrection and/o ed by the exam	ated, formal drav been received on r thepropos	wings are required ed additional or su	or examination pu in response to th These obstitute sheet(s) iner (see explana	urposes until such tim is Office action. e drawings are — ac of drawings, filed on ation).	e as allowable subject ceptable;	
5. [6. [7. [] 8. [9. [Claims Claims This application matter is indicate Allowable subjec The corrected or n not acceptab n tacceptab n tacceptab	ed. Substitute d substitute d ole (see expl d drawing co approv- awing correc	ring been indic Irawings have I lanation). prrection and/o ed by the exam stion, filed	ated, formal drav been received on r the propos uiner disapp	wings are required ed additional or su proved by the exam , has been	or examination pu In response to th These postitute sheet(s) iner (see explana approved.	urposes until such tim is Office action. e drawings are — ac of drawings, filed on ation).	e as allowable subject ceptable; explanation). However,	
5. [6. [7. [2] 8. [9. [] 10. []	Claims	ed. substitute d substitute d ole (see expl d drawing co approv awing correc Grademark Of ections MUS	ring been indic Irawings have I lanation). orrection and/o ed by the exam tion, filed ffice no longer T be effected i	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance with	wings are required ed additional or Su proved by the exam , has been changes. It is now	or examination pu In response to th Thesu ubstitute sheet(s) iner (see explana approved. [applicant's resp	urposes until such tim is Office action. e drawings are ac of drawings, filed on ation). disapproved (see o consibility to ensure th	e as allowable subject ceptable; explanation). However,	2
5. [6. [7. [2] 8. [9. [] 10. []	Claims	ed. substitute d ble (see expl d drawing co approv awing correc (rademark O sctions <u>MUS</u>)	ring been indic Irawings have I lanation). orrection and/o ed by the exam stion, filed frice no longer I be effected i ES", PTO-147	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4.	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions	or examination pu In response to th These obstitute sheet(s) iner (see explana approved. [applicant's resp set forth on the	urposes until such tim is Office action. e drawings are ac of drawings, filed on ation). disapproved (see o consibility to ensure th	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO)))
5. [6. [7. [2] 8. [9. [10. [11. [Claims	ed. substitute d ole (see expl d drawing co awing correc (rademark Of ections <u>MUS</u>) ING CHANG L is made of	ring been indic irawings have I lanation). wrection and/o ed by the exan tice no longer T be effected i ES'', PTO-147 the claim for p	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wi 4.	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu In response to th These obstitute sheet(s) iner (see explana approved. [applicant's resp set forth on the	urposes until such tim is Office action. e drawings are ac of drawings, filed on ation). disapproved (see of ionsibility to ensure th attached letter "INFO	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO	
5. [6. [7. [2] 8. [9. [10. [11. [Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this applic	ed. substitute d ole (see expl d drawing co awing correc frademark Of sections <u>MUS</u> ² ING CHANG L is made of n parent appea	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These obstitute sheet(s) iner (see explana approved. [approved. [set forth on the ertified copy has ; filed onnal matters, prose	urposes until such tim is Office action. e drawings are ac of drawings, filed on ation). disapproved (see of ionsibility to ensure th attached letter "INFO	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	2
5. [6. [7. [] 8. [9. [] 10. [] 11. [] 12. [] 13. []	Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this application	ed. substitute d ole (see expl d drawing co awing correc frademark Of sections <u>MUS</u> ² ING CHANG L is made of n parent appea	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These obstitute sheet(s) iner (see explana approved. [approved. [set forth on the ertified copy has ; filed onnal matters, prose	urposes until such time is Office action. e drawings are ac of drawings, filed on ation). disapproved (see e ionsibility to ensure th attached letter "INFO been received	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	2 2
5. [6. [7. [2] 8. [9. [10. [11. [12. [Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this applic	ed. substitute d ole (see expl d drawing co awing correc frademark Of sections <u>MUS</u> ² ING CHANG L is made of n parent appea	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These obstitute sheet(s) iner (see explana approved. [approved. [set forth on the ertified copy has ; filed onnal matters, prose	urposes until such time is Office action. e drawings are ac of drawings, filed on ation). disapproved (see e ionsibility to ensure th attached letter "INFO been received	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	
5. [6. [7. [] 8. [9. [] 10. [] 11. [] 12. [] 13. []	Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this application	ed. substitute d ole (see expl d drawing co awing correc frademark Of sections <u>MUS</u> ² ING CHANG L is made of n parent appea	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These obstitute sheet(s) iner (see explana approved. [approved. [set forth on the ertified copy has ; filed onnal matters, prose	urposes until such time is Office action. e drawings are ac of drawings, filed on ation). disapproved (see e ionsibility to ensure th attached letter "INFO been received	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	
5. [6. [7. [] 8. [9. [] 10. [] 11. [] 12. [] 13. []	Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this application	ed. substitute d ole (see expl d drawing co awing correc frademark Of sections <u>MUS</u> ² ING CHANG L is made of n parent appea	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These obstitute sheet(s) iner (see explana approved. [approved. [set forth on the ertified copy has ; filed onnal matters, prose	urposes until such time is Office action. e drawings are ac of drawings, filed on ation). disapproved (see e ionsibility to ensure th attached letter "INFO been received	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	
5. [6. [7. [] 8. [9. [] 10. [] 11. [] 12. [] 13. []	Claims Claims This application matter is indicate Allowable subject The corrected or not acceptab The proposed has (have) been The proposed dra the Patent and T corrected. Corre EFFECT DRAWI Acknowledgment been filed i Since this application	ed. substitute d ole (see expl d drawing co awing correc rademark Of ections <u>MUS</u> ING CHANG L is made of n parent app cation appea the practice	ring been indic irawings have I lanation). orrection and/o ed by the exam tion, filed flice no longer I be effected i ES", PTO-147 the claim for p dication, seria rs to be in com	ated, formal drav been received on r the propos niner. disapp makes drawing o n accordance wit 4. briority under 35 L no udition for allowa	wings are required ed additional or su proved by the exam , has been changes. It is now th the instructions U.S.C. 119. The c	or examination pu in response to th These abstitute sheet(s) iner (see explana approved. [applicant's resp set forth on the ertified copy has ; filed on 213,	urposes until such time is Office action. e drawings are ac of drawings, filed on ation). disapproved (see e ionsibility to ensure th attached letter "INFO been received	e as allowable subject ceptable; explanation). However, nat the drawings are DRMATION ON HOW TO not been received	

Serial No. 347629 Art Unit 235

1.50

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The independent inventor's declaration was received on June $\tilde{}$ 19. 1989.

The Examiner requires a copy of the references (The Electronic System Design, Infoworld and Electronic Engineering Times) on page 6 lines 15-25 and page 7 lines 20-25 of the specification.

Claims 12-21 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 12 and 17 are confusing. Each claim includes a third means that does not have a connection to the rest of the circuit. The second means expressly recites a storing function, but the Examiner is unsure if other functions can be attributed to the second means. For example, the first means receives a signal back from the second means. Is a transmitting function implied to the second means? The second means is available to receive additional data. Is the additional data different from the other data. The Examiner questions the use of available. Does this imply a condition of the second means when the second means is not available? Claim 11 is confusing.

2.

י ק

APBU-00000201

Serial No. 289776 Art Unit 235

The Examiner is uncertain where the monitor function occurs. As a result, the time relationship is not clear.

In light of the substantial questions and lack of clarity under 35 U.S.C. 112, no references can be applied against claims 12-21 at this time since substantial guesswork on the part of the examiner would be required to determine the scope and content of the claims (see In re Steele, 134 U.S.P.Q.292).

The Applicant's attention is directed to the Workman reference. Workman discloses the first means (inherent), the second means(fig 16 129), the third means(fig 1 14) and the fourth means(data link) of claim 12.

The reasons for the rejection are listed above.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 8 are rejected under 35 U.S.C. § 102(b) as being anticipated by Nichols et al.

Nichols et al. in fig 4 discloses the first means (96, 118 and 122), the memory means (98, 120, and 124) and the second means (fig 1 22 and 142, 144, and 146) of claim 1.

Nichols et al. in fig 1 discloses the editor (24) of claim

1., 3.2

Serial No. 289776 Art Unit 235

Nichols et al. inherently includes the I/O port of claim 3 because an connection exists to an auxiliary device (fig 1 12).

Nichols et al. discloses the compression (col 9 lines 1-22) of claim 8.

Claims 9-11 and 22-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Parker et al.

Parker et al.in fig 1 discloses the receiving means (16), the digitizing means (20), the storing means(22) and the transceiver means (30) of claim 9.

Parker et al.in fig 2 discloses the transceiver storing compressed digital data (32) and the converting means (fig 1 42) of claim 10.

Parker et al. inherently includes the time being less than monitor time of claim 11 because the apparatus is time base compression.

Parker et al. discloses the receiving means (fig 1 16) and the memory means (22) and the communication means (col 6 lines 25-31) of claim 22.

Parker et al.in fig 1 discloses the A/D convertor (fig 1 20) and the remote location (col 3 lines 18-19 a cassette is issued to a consumer) of claim 23.

Parker et al.inherently includes the providing means of claim 24 because the audio ultimate purpose is to be listened through speakers. Serial No. 289776 Art Unit 235

al.

1 Sec

Parker et al. in fig 2 discloses the D/A converter (34) and

the remote location(library col 3 lines 5-8) of claim 25.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 4-7 are rejected under 35 U.S.C. § 103 as being unpatentable over Nichols et al. in view of Fabris et al.

Nichols et al. does not disclose the optic fiber I/O port of claim 4. Fabris et al. discloses the optic fiber I/O port (col 7 lines 30-35) of claim 4. <u>It would have been obvious to one of</u> <u>ordinary skill in the art</u> to modify Nichols et al. with the optic fiber I/O port as taught by Fabris et al. because Fabris shows data transmission in a data compression context and use of optic fibers as a transmission means is established by Fabris et

Nichols et al. does not disclose the modem of claim 5.

Serial No. 289776 Art Unit 235

Fabris et al. discloses the modem(fig 7 701 702 703 704) of claim 5. It would have been obvious to one of ordinary skill in the art to modify Nichols et al. with the modem as taught by Fabris et al. because Fabris shows data transmission in a data compression context using the modem as an interface device is customary in this environment.

Nichols et al. does not disclose the microwave transceiver of claim 6. Fabris et al. discloses the microwave transceiver(col 7 lines 30-35) of claim 6. <u>It would have been obvious to one</u> <u>of ordinary skill in the art</u> to modify Nichols et al. with the microwave transceiver as taught by Fabris et al. because Fabris shows data transmission in a data compression context having microwave transmission capability to establish remote reception.

Nichols et al. does not disclose the transfer at an accelerated rate of claim 7. Fabris et al. discloses the transfer at an accelerated rate(fig 5 523) of claim 7. <u>It would have been</u> <u>obvious to one of ordinary skill in the art</u> to modify Nichols et al. with the transfer at an accelerated rate as taught by Fabris et al. because Fabris shows data transmission in a data compression context for the inherent data processing savings.

Claims 1 and 8 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 11 and 12 of copending

Case 3:06-cv-00019-MHP Document 76-5 Filed 12/09/2006 Page 50 of 50

Serial No. 289776 Art Unit 235

application serial no. 07/289776. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons. Claim 1(629) includes a first means, atmemory means and a second means. these are the equivalent of the first means, the digital memory and the second / third means of claim 11(776). Claim 8(629) which includes compression is the equivalent of claim 12(776).

This is a *provisional* obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of the patent term by prohibiting claims in a second patent not patentably distinct from claims in a first patent. In re Vogel, 164 USPQ 619 (CCPA 1970). A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. § 1.78(d).

Claims 1 and 8 of this application conflict with claims 11-12 of application serial number 07-289776. 37 C.F.R. § 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications.