EXHIBIT 10

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0 4 2000 1 WT & THO Assistant Commissioner of Patents Box CPA Washington, D. C. 20231 By Express Mail No. EK797321441US PRELIMINARY AMENDMENT TO 2100 MAIL ROOM Re: Patent Application of Brad A. Armstrong NUG 10 Serial No.: 08/677,378 Filed: 07/05/96 Title: IMAGE CONTROLLERS AND SENSORS (as Amended) Applicant's address: Brad A. Armstrong P.O. Box 1419 3 Paradise, CA 95967 H. S. Patent Examiner: Brier, J. Art Unit: 2775

CPA IN RESPONSE TO THE OUTSTANDING OFFICE ACTION OF 03/13/00

Sir:

ATTACHMENTS

A return receipt postcard. A request for making the application a 37 C.F.R. 1.53(d) continuation CPA and the filing fee are attached. Supplemental Declaration for Patent Application (Rule 1.63). Small entity declaration for Inventor. Small entity declaration for Assignee small business. A certificate of Express Mailing is attached. A Petition for Extension of Time under 37 CFR 1.136 and the fee for TWO additional months is hereto attached.

REMARKS

This is responsive to the Office Action mailed 03/13/00, paper # 13, regarding the above specified application. Please amend the above specified application as herein requested and reexamine the amended application in view of the remarks.

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The entire Detailed Action of the 03/13/00, which was made final, has been carefully read, including points 1-7.

On 07/31/00 Applicant spoke with Examiner Brier, J. by telephone mainly regarding the prior art of Hoyt, U.S. Patent No. 5,687,080 and Yoshida et al, U.S. Patent No. 5,250,930 regarding claims 19-22. Agreement as to allowability of the claims as currently written was not reached, but the Examiner indicated that while a new search would be needed, he thought that a sheet connecting both buttons and multi-axes joystick would be allowable, if claimed. The Examiner agreed that Yoshida having a joystick internally connected with individual electrical wires (see Yoshida Fig. 2 and column 7 lines 9-11) is expensive in high volume compared to Applicant's sheet connected buttons and multi-axes input devices. The Examiner further agreed, that pending a search, the sheet integration of multi-axes input devices and a plurality of buttons was likely allowable. The above is a summary of the telephone interview to Applicant's best

recollection.

Under amendments, claims 19-37 will be cancelled, and new claims inserted and submitted as allowable.

AMENDMENTS

In the specification:

Applicant wishes to amend the specification to claim the 35 U.S.C. 120 priority benefit of Applicant's earlier U.S. application 847,619 which was pending when the instant application was filed, in addition to application 393,459 already claimed on page 1. Therefore, please insert the following into page 1 of the specification below the title and above BACKGROUND OF THE INVENTION:

--This application claims the benefits of the earlier filing date under 35 U.S.C. 120 of U.S. Patent application Serial No. 847,619 filed March 5, 1992, now U.S. Patent 5,589,828.--

In order that the title closely reflect the current claimed invention, please amend the title of the application to read: --IMAGE CONTROLLERS WITH SHEET CONNECTED SENSORS--

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Amendments to the claims: Please insert into the claims section and examine the following new claims 38-60.

38. An image controller comprising:

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an input member with associated sensors, said input member moveable on at least two axes; and

a plurality of finger depressible buttons with associated sensors; and

at least one sheet structurally connecting, at least in part, to the sensors of said input member, and said at least one sheet structurally connecting, at least in part, to the sensors of said finger depressible buttons; said at least one sheet having

electrically conductive traces located on said at least one sheet, said electrically conductive traces electrically connecting with the sensors of said input member, and said electrically conductive traces electrically connecting with the sensors of said finger deprecisible buttons.

39. An image controller ac ording to claim 38 in which said image controller is connected to an image generation device.

40. An image contraction a c ding to claim 39 in which at least one of the finger de res 1 buttons is structured with a resilient dome cap.

41. An image controlle according to claim 40 in which said resilient dome cap is structu ed to provide a tactile feedback to a human hand.

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42. An image control ler according to claim 41 in which a plunger is positioned above said dome cap, said plunger comprising a non-conductive rigid plastic material.

43. An image controller according to claim 41 in which said at least one of the finger depressible buttons is associated with a pressure-sensitive variable sensor, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied.

44. An image controller according to claim 43 in which said at least one sheet further comprises

a flexible membrane sheet connected to

a rigid circuit **board\sheet.**

45. An image controller according to claim 43 in which said plurality of finger depressible buttons are at least 10 in number, at least some of said buttons represent keys for numbers 1-9.

An image controller according to claim As in which said plurality of finger depressible buttons are at least 40 in number, at least some of said buttons represent keys for the alphabet, and at least one of said buttons represents a spacebar.

An image controller according to claim in which said input member is operable on at least six axes.

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48. An image controller comprising:

an input member movable on at least two axes, said input member having associated sensors; and

a plurality of finger depressible buttons, said finger depressible buttons having associated sensors; and

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at least one sheet connecting to the sensors of said input member, and said at **lea**st one sheet connecting to the sensors of said finger depressible buttons.

An image controller according to claim 48 in which said 49. at least one sheet includes electrically conductive traces, said traces engaging the sensors.

50. An image controller according to claim 49 in which at least one of the finger depressible buttons is structured with a resilient dome cap.

51. An image controller according to claim 50 in which said resilient dome cap is structured to provide a tactile feedback to a human hand.

52. An image controller according to claim 51 in which a plunger is positioned to press against said dome cap.

53. An image controller according to claim 51 in which said at least one sheet further comprises

a flexible membrane sheet connected to

a rigid circuit board\sheet.

54. An image controller according to claim 53 in which said at least one of the finger depressible buttons is associated with a pressure-sensitive variable sensor, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied.

55. An image controller according to claim 53 in which said plurality of finger **depressible** buttons are at least 10 in number, at least some of said buttons represent keys for numbers 1-9.

56. An image controller according to claim 55 in which said plurality of finger depressible buttons are at least 40 in number, at least some of said buttons represent keys for the alphabet, and at least one of said buttons represents a spacebar.

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57. An image controller according to claim 55 in which said input member is operable on at least six axes.

58. An image controller according to claim 36 in which said input member is operable on at least six axes.

59. An image controller according to claim 57 in which said at least one of the finger depressible buttons is associated with a pressure-sensitive variable sensor, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied.

60. An image controller comprising:

a plurality of **fin**ger depressible buttons, said finger depressible buttons having associated sensors; and

at least one sheet electrically connecting the sensors; and at least one of the sensors, comprising:

a body;

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at least two conductive tang elements fixed to said body and in-part within said body;

a depressible plunger retained by said body and in-part exposed external to said body;

 a resilient snap-through dome-cap positioned within said body and depressible with force from said plunger applied to said dome-cap to cause said dome-cap to snap-through and create a tactile feedback;

pressure-sensitive variable-conductance material within said body and positioned as a variably conductive element electrically

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between said two **conduct**ive tang elements, and further positioned for receiving force applied to said dome-cap, whereby electrical conductivity of said pressure-sensitive variable-conductance material is altered relative to received force and electrical output of said sensor is variable.

REMARKS

No new matter has been added via this amendment.

The claim language is fully supported in the originally filed specification.

Applicant acknowledges and appreciates that Examiner Brier is an examiner with a great deal of experience and familiarity with the procedures and rules of the Patent Office. Applicant relies on the Examiner's knowledge of the Constitution of the United States of America, wherein the founding Fathers set-forth "To Authors and Inventors the Exclusive Right to Their Respective Writings and Discoveries" Article I, Section 8, thus establishing the purpose upon which the U.S. Patent Office is founded.

New claims 38-60 are believed novel and inventive over the prior art, and thus allowable within the rules of the Patent Office and the spirit of the Constitution of the United States of America.

Allowance of the new claims is very respectfully requested.

I hereby declare and swear 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.

Respectfully; Date:

4 Aug. 2000

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Brad A. Armstrong, Inventor / Applicant

CERTIFICATE OF EXPRESS MAILING Assistant Commissioner for Patents Washington, D. C. 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL article EK797321441US with sufficient postage pre-paid in an envelope addressed to: Assistant Commissioner of Patents, Washington, DC 20231, on this

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Brad A. Armstrong, Inventor / Applicant



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Brad A. Armstrong, Inventor / Applicant

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	DECLARATION OR DE		Application Numbe	r 08	/ 67	7,378	
	PATENT AP		Filing Date	07	/05/96		
	(37 CFI	R 1.63)	Group Art Unit	277	5		
l	<		Examiner Name	Bri	er, J.		
	My residence, post office address, and citizenshipare 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 hames are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: I MAGE CONTROLLERS AND SENSORS (as amended)						
	the specification of which (<i>The of the invention</i>) k attached hereto OR was filed on (MM/DD/YYYY) 07/05/96 as United States Application Number or PCT International Application Number 08/677,378 and was amended on (MM/DD/YYYY) (<i>if applicable</i>) (<i>if applicable</i>)						
	as part of my or our invention hereby state that I have revie	et matter of the X attache n and was invented before the fl wed and understand the conter	ling date of the original appli	cation, above ident			
	mendment specifically referre	ed to above. Iose information whch Is materi	ialto patentability as defined	in 37 CFR 1.56.			
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I hereby claim United States United States information wh	the benefit under 35 U.S.C. of America, listed bebw ar or PCT international applica ich is material to patentab ai or PCT international filing	. 120 d any United Stand, insofar as the sub atbn h the manner pro ilityas defined in 37 C	ates applicat ject matter vided by the FR 1.56 wh	tion(s), or 365 d each of the first paragra ich became a	(c) of any PC claims d th phof 35 U.S. vailable betv	CT Internat th applicat C. 112, I a veen the fil	tonal application designation is not disclosed in the cknowledge the duty to disclosed in the cknowledge the duty to do ing date of the prior app	ing the le pnor lisclose lication
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07/847	7,619			03/05	/1992	u.s	. 5,589,828	,
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Address	P.O. Box 1	419						
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Inventor's			ATV	Country	US			
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Inventor's Signature Residence:	Address Brad A.		₩ √ g, P.(Para		5967

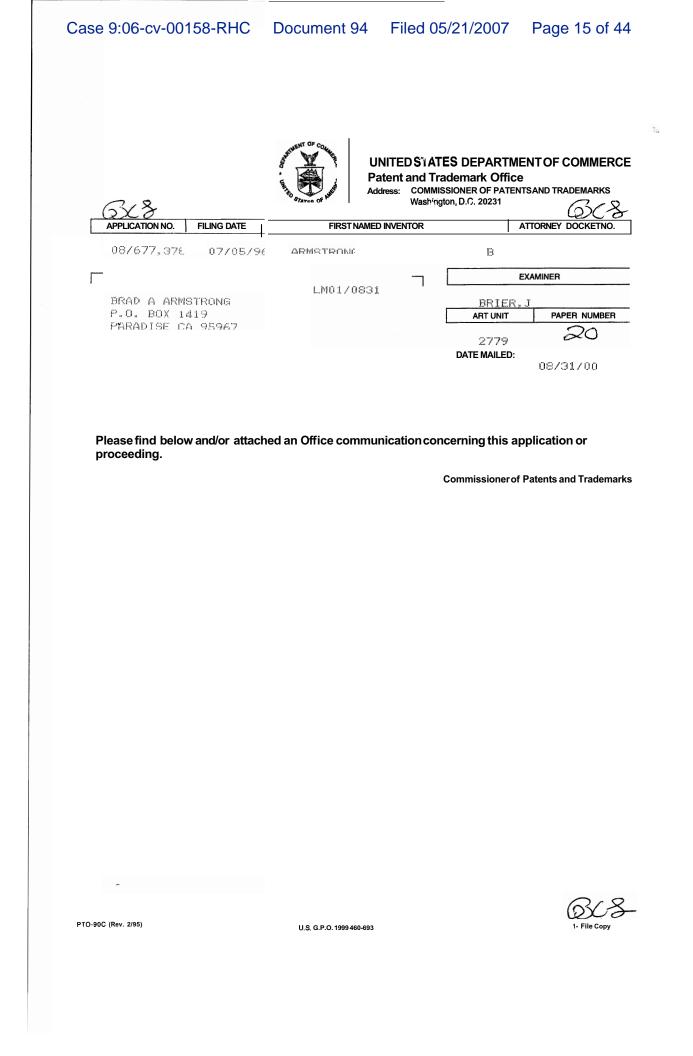
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4 2000	STATEMENT CLAIMING SM (27 CFR 1.9(f) & 1.27(b))-IN		Docket Number (Optional)	
a g the Constant of the Consta	Applicant, Patentee, or Identifier:	Brad A. Armstrong, In	ventor / <u>Applican</u> t	
	Application or Patent No.: ann	lication <u>08/677.37</u> 8		
	FiledorIssued: 07/05/96			
	Title: IMAGE CONTROL	LERS AND SENSORS (as A	Amended)	
	As a below named inventor, I he for purposes of paying reduced f	ereby state that Iqualify as an independe fees to the Patent and Trademark Office	ent inventoras defined in 37 CFR (9(c)	
	the specification filed her	rewith with title as listed above.	MA D	
	x the application identified the patent identified above		HAIL ROOM	Þ
	grant, convey, or license, any rig under 37 CFR 1.9(c) if that pers	hts in the invention to any person who wou	ld notqualifyas an independent inventor ncern which would notQualifyas a small	
		nizationto which I have assigned, grante v to assign, grant, convey, or license any	d, conveyed, or licensed or am under an rights in the invention is listed below:	
	No such person, conce	ern, or organizationexists		
	Each such person, con	cern, or organization is listed below.		
	ANASCAPE (a Nevad	a Limited Partnership)	1	
	Address; 723 South	Casino Center Blvd., 2	2nd Floor	
			organization having rights to the invention	
	entitlement to small entity statu		any change in status resulting in loss of ing, the earliest of the issue fee or any no longerappropriate.(37 CFR 1.28(b))	
	Brad A. Armstrong NAMEOFINVENTOR	NAME OF INVENTOR	NAME OF INVENTOR	
	Signature of inventor	Signature of inventor	Signature of inventor	
	<u> </u>	Date	Date	

Case 9:	06-cv-00158-RHC	Document 94	Filed 05/21/2007	Page 14 of 4
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	STATEMENT CLAIMING	SMALL ENTITY STA	TUS Docke	et Number (Optional)
CALBORNANS?	(37 CFR 1.9(f) & 1.27(c))	SMALL BUSINESS		
	Applicant, Patentee, or Identifier: Application or Patent No.: 08	Brad A . <u>Arms</u> tro 2/677,378	ng, Inventor/Applic	eant
	Filed or Issued: 07	7 <u>/05/96</u>)LLERS_ANT) SENSC	RS (as Amended)	
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		siness concern identified below siness concern empowered to	<i>r</i> : act on behalf of the concern identifie	d below:
	NAME OF SMALL BUSINESS C	CONCERN ANASCAPE	(a Nevada Limited I	Partnership)
	ADDRESSOFSMALLBUSINE Las Vegas, NV 891	SSCONCERN <u>723 Sou</u> 25-2346	uth Casino Center B	<u>vd., 2nd</u> Fl.o
	13 CFR Part 121 for purposes of	paying reduced fees to the Unit ness concern may be directed	ncern qualifies as a small business or ed States Patent and Trademark Offic to: Small Business Administration, S	e. Questions related size Standards Staff,
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	organization having rights in the i to the invention are held by any p	nvention must file separate sta person, other than the inventor le the invention, or by any con	concern are not exclusive, each ind tements as to their status as small e who would not qualify as an indepen cern which would not qualify as a sm 1.9(e).	lividual concern, or ntities, and no rights dent inventor under
	□ no such person, concern, c □ each such person, concern Brad A. Armstrong,	or organization exists. a, or organization is listed belo Inventor Sm quired from each named perso	all entity statemen on, concern or organization having rig	
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	NAME OF PERSON SIGNING	Kelly Tyler		
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	Application No.	Applicant(s)
	08/677,378	ARMSTRONG, BRAD A.
Office Action Summary	Examiner	Art Unit
	Jeffery A Brier	2779
The MAILING DATE of this communication ap eriod for Reply	pears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION		IONTH(S) FROM
 Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this comm If the period for reply specified above is less than thirty (30) or be considered timely. If NO period for reply is specified above, the maximum statut communication. Failure to reply within the set or extended period for reply wil tatus 	unication. days, a reply within the statutory m tory period will apply and will expire	inimum of thirty (30) days will e SIX (6) MONTHS from the mailing date of th
1) Responsive to communication(s) filed on \underline{O}	4 August 2000 .	
	This action is non-final.	
3) Since this application is in condition for allo closed in accordance with the practice under	wance except for formal ma	atters, prosecution as to the merits is .D. 11, 453 O.G. 213.
isposition of Claims		
4) Claim(s) <u>38-60</u> is/are pending in the applica	ition.	
4a) Of the above claim(s) is/are with	Irawn from consideration.	
5) Claim(s) is/are allowed.		đ
6) Claim(s) <u>38-43, 45-52, and 54-60</u> is/are reje	cted.	
7) Claim(s) <u>44 and 53</u> is/are objected to.		
8) Claims are subject to restriction and	l/or election requirement.	
Application Papers		
9) The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on <u>05 July 1996</u> is/are of 10^{10}		
11) The proposed drawing correction filed on] disapproved.
12) The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. § 119		
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d).
a) All b) Some * c) None of the CER	TIFIED copies of the priority	documents have been:
1. received.		
2. received in Application No. (Series C	ode / Serial Number)	
3. received in this National Stage application		
* See the attached detailed Office action for a l	ist of the certified copies not	t received.
14) Acknowledgement is made of a claim for do	mestic priority under 35 U.S	S.C. & 119(e).
Attachment(s)		
 5) X Notice of References Cited (PTO-892) 6) Notice of Draftsperson's Patent Drawing Review (PTO-948) 7) Information Disclosure Statement(s) (PTO-1449) Paper Not 	19) 🔲 Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
6. Patent and Trademark Office		and the second

Application/Control Number: 08/677,378 Art Unit: 2779 Page 2

DETAILED ACTION

Continued Prosecution Application

1. The request filed on 08/04/2000 for a Continued ProsecutionApplication (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/677,378 is acceptable and a CPA has been established. An action on the CPA follows.

Response to Amendment

2. The amendment filed on 08/04/2000 has been entered.

Priority

3. This application repeats a substantial portion of prior Application **No**. 08/847,619, filed March 05, 1992, and adds and claims additional disclosure not presented in the prior application. Since this application names an inventor or inventors named in the prior application, it may constitute a continuation-in-part of the prior application rather than a continuation. MPEP 201.08. The same applies to 08/393,459. In the preliminary amendment filed on 09/23/96 applicant deleted reference to 08/393/459. Now at page 2 of applicants 08/04/2000 amendment applicant states that an additional application is being claimed in "addition to application 393,459 already claimed on page 1 of the specification". Thus, if applicant wishes to claim benefit to 393,459 then applicant will have to add this application back to the specification. Applicant may wish to rewrite his claim to priority as "This application is a continuationin-part of U.S. Patent Application Serial No. 08/847,619 filed on March 5, 1992, now Application/Control Number: 081677,378 Art Unit: 2779 Page 3

U.S. Patent No. 5,589,828 and this application is a continuation-in-part of U.S. Patent Application Serial No. 08/393,459 filed on February 23, 1995, now U.S. Patent No. 5,565,891.".

Drawings

4. Figures 37 and 38 should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). Page 38 line 32 and page 39 line 16 describes figures 37 and 38 as typical sensor packages.

Claim Rejections - 35 USC § 102

5. 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 -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claim 60 is rejected under 35 U.S.C. 102(a) as being anticipated by applicants admission of the prior art. Figure 38 shows and page 39 lines 16-30 describes that which applicant has admitted as being prior art and now claimed in claim 60.

Application/Control Number: 081677,378 Art Unit: 2779 Page 4

7. Claims 38, 39, 48, and 49 are rejected under 35 U.S.C. 102(e) as being anticipated by Brandenburg et al., U. S. Patent No. 5,231,386, of record. Base plate 64 (column 9 lines 43 and 44) is a PC board for supporting the pointing device and keyboard keys and it is well known that PC boards has electrical conductive traces. A PC board is a sheet.

8. Claims 38, 39, 48, and 49 are rejected under 35 U.S.C. 102(e) **as** being anticipated by Sekine, U. *S*. Patent No. 5,898,425, newly cited. Column 4 lines 60-62 and column 5 lines 30-33 describes a sheet with conductive traces which are connected to the keyboard keys and the pointing stick. These claims are written broadly and cover that which has been made before applicants filing date.

Claim Rejections - 35 USC § 103

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

(a) 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.
10. Claims 40-43, 45, 46, 50, 51⁵²/₉ 54-56, and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandenburg et al., U. S. Patent No. 5,231,386, as applied to claims 38, 39, 48, and 49 above, and further in view of applicants admission of the prior art. Brandenburg does not describe how the finger depressible buttons are made.
Figure 38 shows and page 39 lines 16-30 describes the finger depressible buttons

Application/Control Number: 08/677,378 Art Unit: 2779

which applicant has admitted as being prior art and is now claiming. It would have been obvious to one of ordinary skill in the art at the time of applicants invention to use the finger depressible buttons of figure 38 in Brandenburg because the pointing device key shown on the front of Brandenburg has the same features that applicant is claiming for

the finger depressible buttons. 52-) 11. Claims 40-43, 45, 46, 50, 51, 54-56, and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine, U. S. Patent No. 5,898,425, as applied to claims 38, 39, 48, and 49 above, and further in view of applicants admission of the prior art. Figure 38 shows and page 39 lines 16-30 describes the finger depressible buttons which applicant has admitted as being prior art and is now claiming. It would have been obvious to one of ordinary skill in the art at the time of applicants invention to use the finger depressible buttons of figure 38 in Sekine because Sekine fails to describe the type of finger depressible buttons used in Sekine's system. Thus, prior art finger depressible buttons are to be used in Sekine's system and figure 38 is a prior art finger depressible button.

12. Claims 47, 57, and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandenburg et al., U. S. Patent No. 5,231,386, in view of applicants admission of the prior art ,as applied to claims 46, 55, and 56 above, and further in view of Hoyt et al., U. S. Patent No. 5,687,080, of record. These claims limit the input member as operable on at least six axes. Hoyt teaches that six degree of freedom joysticks are well known. It would have been obvious to one of ordinary skill in the art

Page 5

Application/Control Number: 081677,378 Art Unit: 2779

Page 6

to place a six degree of freedom joystick onto Brandenburg's base plate because a six degree of freedom joystick is more desirable than a three degree of freedom joystick. 13. Claims 47, 57, and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine, U. S. Patent No. 5,898,425, in view of applicants admission of the prior art, as applied to claims 46, 55, and 56 above, and further in view Hoyt et al., U. S. Patent No. 5,687,080, of record. These claims limit the input member as operable on at least six axes. Hoyt teaches that six degree of freedom joysticks are well known. It would have been obvious to one of ordinary skill in the art to place a six degree of freedom joystick onto Sekine's internal keyboard unit 29 because a six degree of freedom joystick is more desirable than a three degree of freedom joystick.

Allowable Subject Matter

14. Claims 44 and 53 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record does not teach or suggest placing an input member movable in at least two axes and finger depressible buttons of claim 43/41/40/39/38 or claim 51/50/49/48 onto a flexible sheet.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A Brier whose telephone number is (703) 305 The examiner can normally be reached on M-F from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Powel, can be reached on (703) 305-9703. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-6606.

Application/Control Number: 08/677,378 Art Unit: 2779

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Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

> J ffery A Brier Primary Examiner Art Unit 2779 &-29-00

Page 7

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		Notice of Poferonces Cited 081677,378 Reexaminatio		Applicant(s)/Pat Reexamination ARMSTRONG, E	ion						
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					Jeffery A Brier			2779	Page 1 of 1		
				U.S. PA	TENT DOCUMEN	NTS			DOCUM	INT	
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 or this reterence is not being furnished with this Office action. (See Manualof Pate **AP encompasses any electronic search i.e. text, image, and Commercial Databases. U.S. Patent and Trademark Office PTO-892 (Rev. 03-98)

 Notice of Reference

Notice of References Cited

Part of Paper No. 20

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Gren PTO 948 (Rev. 10-94) U.S. DEPAR	TMENT OF COMMERC	CE - Patent and Trademark Office Application NS 167731
NOTICE OF DD	FROEDCOND	S PATENT DRAWING REVIEW
alent Examiners will review the drawings for come by Drawing Review Branch, 703-305-8404.	ompliance with the re	hether they are designated as formal or informal. Additionally, gulations. Direct telephone inquiries concerning this review to
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not objected to by the Draftsperson under 37 C	, are FR 1.84 or 1.152.	View and enlarged view not labled separatly or properly. Fig(s) Sectional views. 37 CFR 1.84 (h) 3
objected to by the Draftsperson under 37 CFR licated below. The Examiner will require submission awings when necessary. Corrected drawings must be s	of new, corrected	— Hatching not indicated for sectional portions of an object.
cording to the instructions on the back of this Notice.	uomnee	Fig(s)
DRAWINGS, 37 CFR 1.84(a): Acceptable categorie	s of drawings:	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
Black ink. Color. Not black solid lines. Fig(s)	6 granted	— Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right
Color drawings are not acceptable until petition i Fig(s)	s granted.	side, except for graphs. Fig(s) 9. SCALE. 37 CFR 1.84(k)
PHOTOGRAPHS. 37 CFR 1.84(b) — Photographs are not acceptable until petition is g	ranted.	 Schulz: of the holds of the show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction.
Fig(s) Photographs not properly mounted (must use bry	stol board or	Fig(s) Indication such as "actual size" or scale 1/2" not permitted.
photographic double-weightpaper). Fig(s) Poor quality (half-tone). Fig(s) GRAPHIC FORMS. 37 CFR 1.84 (d)		Fig(s) 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR
Chemical or mathematical formula not labeled as	s separate figure.	 1.84(1) Lines, numbers & letters not uniformly thick and well defined,
Fig(s) Group of waveforms not presented as a single fig common vertical axis with time extending along		clean, durable, and black (except for color drawings). Fig(s)
Fig(s)Individuals waveform not identified with a separ		11. SHADING. 37 CFR 1.84(m)
designation adjacent to the vertical axis. Fig(s)_ TYPE OF PAPER. 37 CFR 1.84(c)		Solid black shading areas not permitted.
 Paper not flexible, strong, white, smooth, nonshi Sheet(s) 	ny, and durable.	Shade lines, pale, rough and blurred. Fig(s) 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR
Erasures, alterations, overwritings, interlineation and folds copy machine marks not accepted. Fig(1.84(p) Numbers and reference characters not plain and legible. 37 CFR
Mylar, velum paper is not acceptable (too thin). I SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes	Fig(s)	1.84(p)(1) Fig(s)
21.6 cm. by 35.6 cm. (8 U2 by 14 inches) 21.6 cm. by 33.1 cm. (8 l/2 by 13 inches)		as the view. 37 CFR 1.84(p)(l) Fig(s) English alphabet not used. 37 CFR 1.84(p)(2)
21.6 cm. by 27.9 cm. (8 U2 by 11 inches) 21.0 cm. by 29.7 cm. (DIN size A4)		Fig(s) Numbers, letters, and reference characters do not measure at least
All drawing sheets not the same size. Sheet(s) Drawing sheet not an acceptable size. Sheet(s)		.32 cm. (118 inch) in height. 37 CFR(p)(3) Fig(s)
MARGINS. 37 CFR 1.84(g): Acceptable margins: Paoer size		 LEAD LINES. 37 CFR 1.84(q) Lead lines cross each other. Fig(s)
21.6 cm. X 35.6 cm. 21.6 cm X 33.1 cm. 21.6 cm. X 21.9 cm. 2		Lead lines missing. Fig(s) 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
	N Size A4) 2.5cm. 2.5 cm.	Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s)
K .64 cm. (1/4") .64 cm. (1/4") .64 cm. (1/4")	1.5 cm. 1.0 cm.	 NUMBER OF VIEWS. 37 CFR 1.84(u) — Views not numbered consecutively, and in Arabic numerals,
Margins do not conform to chart above.		beginning with number 1. Fig(s)
Sheet(s)Top (T)Left (L)Right (R)Bottom (B)		Fig(s)
VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision	to correspond to	 CORRECTIONS. 37 CFR 1.84(w) Corrections not made from prior PTO-948.
drawing changes. All views not grouped together. Fig(s)		Fig(s) 17. DESIGN DRAWING. 37 CFR 1.152
Views connected by projection lines or lead lines Fig(s)	5.	Surface shading shown not appropriate. Fig(s) Solid black shading not used for color contrast.
Partial views. 37 CPR 1.84(h) 2		Fig(s)
COMMENTS:		



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Box Non-Fee Amendments Assistant Commissioner of Patents Washington, D. C. 20231

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By Express Mail article EK797321469US

Re: Patent Application of Brad A. Armstrong
Serial No.: 08/677,378 Filed: 07/05/96
Title: IMAGE CONTROLLERS WITH SHEET CONNECTED SENSORS
 (as amended)
Applicant's address: Brad A. Armstrong
 P.O. Box 1419
 Paradise, CA 95967
Patent Examiner: Brier, J. Art Unit: 2779

IN RESPONSE TO THE OUTSTANDING OFFICE ACTION OF 08/31/00

Sir:

REMARKS

This is responsive to the Office Action mailed 08/31/00, paper #20, regarding the above specified application wherein claims 38-60 are pending, and 38-43, 45-52, and 54-60 are rejected, and claims 44 and 53 are objected to.

A certificate of Express mailing is attached.

The consideration of this response, and the reexamination of the application and pending claims in view of this response is requested.

The entire Detailed Action of the **08/31/00** has been carefully read, including points **1-15**.

Point 1 has been read, and it is noted that the CPA is acceptable and has been established. Applicant notes that the original application number 08/677,378 and filing date are being used in reference to the CPA.

Point 2 is noted.

Point 3 has been read. Applicant will amend, under amendments below, the specification to include the rewritten priority claim as suggested by the Examiner. The Examiner's suggestion is appreciated. Thank you.

Point 4 has been read. Drawing Figure 37 is prior art and is labeled as such in the new substitute formal drawing included herewith. A Letter to the Official Draftsperson is also herewith included. Would the Examiner please be so kind as to properly route the substitute drawing so that it is the drawing used for the Patent publication. Thank you.

Regarding the issue of Fig. 38. Applicant understands that the Examiner may have perceived Fig. 38 as prior art from reading the first sentence starting on line 16 on page 39, but therein Applicant is only describing a "typical package body 600" meaning that the body of the Fig. 38 sensor may use a prior art style body, not meaning that the sensor of Fig. 38 is prior art, rather lines 17-29 assert that Fig, 38 is a novel sensor.

Figure 38 is NOT a prior art figure or device. In the specification, on page 39 lines 17-29, describes the sensor of Fig. 38 as being novel at least due to the inclusion of "an additional very important element" (line 17), being a "pressure sensitive electrical element 612" (line 20). Applicant does not admit Fig. 38 is prior art and in fact states on lines 27-29 "I believe that integration of pressure sensitive technology into a tactile-snap through sensor package is novel...".

Applicant has recently received a U.S. Patent on the novel sensor of Fig. 38, U.S. Patent 5,999,084 issued Dec. 7, 1999. A -Copy of patent 5,999,084 is herewith included for the Examiner's convenience.

Point 5 is noted.

Point 6 has been read. Applicant will cancel claim 60 below under amendments, but Applicant does not admit claim 60 is not allowable because the Examiner's reasoning depends on the reliance of the "Fig. 38" sensor being prior art, which it is not as discussed above in response to point 4.

Point 7 has been read.

Point 8 has been read.

Point 9 has been read.

Points 10-13 have been read and Applicant again directs the Examiner's attention to the discussion of point 4 above and Fig. 38 not being prior art.

Point 14 noting the "Allowable Subject Matter" has been read and understood.

The Examiner states: "The prior art of record does not teach or suggest placing an input member movable in at least two axes and finger depressible buttons of claim 43/41/40/39/38 or claim 51/50/49/48 onto a flexible sheet."

Accordingly, in the Amendments below, the independent claim 38 (once amended) now includes the elements of claims 44/43/41/40/39/38, and also the independent claim 48 (once ^amended) now includes the elements of claims 53/51/50/49/48.

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Point 15 has been noted.

In the Aug. 4, 2000 amendment, Applicant stated in Remarks that he would cancel claims 19-37, but forgot to formally request cancelation of the claims under Amendments. It is noted the Examiner correctly understood Applicant's intention regarding claims 19-37 in his response of 08/31/00 by treating the claims as having been cancelled. For the sake of clarity, Applicant will formally cancel claims 19-37 below under Amendments for the record. Thank you.

AMENDMENTS

read:

In the Specification:

Please rewrite the priority claim in the specification to

--This application is a continuation-in-part of U.S. Patent
 Application Serial No. Application filed on March 5, 1992, now
 U.S. Patent No. 5,589,828 and this application is a continuation-in-part of U.S. Patent Application Serial No. 08/393,459 filed on February 23, 1995, now U.S. Patent No. 5,565,891.--

Amendments to the claims:

Please cancel claims 19-37 per the above discussion.

The claim amendments will be made by way of underlining that which is being added, and bracketing "[]" around that which is being deleted.

Please amend claim 38 as follows.

12

a plurality of finger depressible buttons with associated

 \mathcal{S}

sensors; and

197. 19⁵K.

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at least one sheet structurally connecting, at least in part, to the sensors of said input member, and said at least one sheet structurally connecting, at least in part, to the sensors of said finger depressible buttons; said at least one sheet having

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electrically conductive traces located on said at least one sheet, said electrically conductive traces electrically connecting with the sensors of said input member, and said electrically conductive traces electrically connecting with the sensors of said finger depressible buttons;

said image controller is connected to an image generation device;

at least one of the <u>finger</u> depressible buttons is structured with a resilient dome cap:

said resilient dome cap is structured to provide a tactile
feedback to a human hand:

a pressure-sensitive variable sensor is the sensor associated with said at least one of the finger depressible buttons, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied; said at least one sheet comprises

a flexible membrane sheet connected to a rigid circuit board sheet.

Please cancel claims 39-44.

Please amend claim 45 to read as follows.

45. (once amended) An image controller according to claim [43] <u>38</u> in which said plurality of finger depressible buttons are at least 10 in number, at least some of said buttons represent

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Case	9:06-cv-00158-RHC	Document 94	Filed 05/21/2007	Page 30 of 44
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4	د 48°. (once amer an input member member having assoc a plurality of depressible buttons at least one s member, and said at said finger depress <u>said at least</u> <u>traces. said traces</u> <u>at least one of</u> with a resilient do <u>said resilient</u> <u>feedback to a human</u> <u>a flexible mer</u>	er movable on a ciated sensors; f finger depres s having associ- sheet connectin t least one she sible buttons; one sheet incl s engaging the of the finger d ome cap: t dome cap is s	controller compris t least two axes, s and sible buttons, said ated sensors; and g to the sensors of et connecting to th <u>udes electrically c</u> <u>sensors;</u> epressible buttons <u>tructured to provid</u> <u>least one sheet co</u>	aid input finger said input e sensors of <u>onductive</u> is structured <u>e a tactile</u>
 کور۲	<pre> 54. (once amen [53] 48 in which sa buttons is associat whereby depression buttons provides a depressive pressure 7 55. (once amen [53] 48 in which sa </pre>	claims 54-55 to nded) An image aid at least on ted with a pres of said at lea proportional s e applied. nded) An image aid plurality o	read as follows. controller accordi e of the finger dep sure-sensitive vari st one of the finge ignal representing controller accordi f finger depressibl ome of said buttons	ressible able sensor, or depressible the level of ng to claim e buttons are

keys for numbers 1-9.

63x

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Please cancel claim 60.

Please insert the following new claims 61-72 presented for examination and allowance. Thank you.

14 64. An image controller comprising:

an input member with associated sensors, said input member moveable on at least two axes; and

a plurality of finger depressible buttons with associated sensors; and

at least one sheet connecting to the sensors of said input member, and said at least one sheet connecting to the sensors of said finger depressible buttons;

said at least one sheet comprising at least

a flexible membrane sheet.

62. An image controller according to claim **61** in which at least one of the finger depressible buttons is structured with a resilient dome cap.

163. An image controller according to claim 52 in which said image controller is connected to an image generation device.

64. An image controller according to claim 63 in which said image generation device includes a television based electronic game.

65. An image controller according to claim **52** in which said resilient dome cap is structured to provide a tactile feedback to a human hand.

66. An image controller according to claim 55 in which

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a plunger is positioned above said dome cap, said plunger comprising a non-conductive rigid plastic material.

67. An image controller according to claim of in which said at least one of the finger depressible buttons is associated with a pressure-sensitive variable sensor for providing a proportional signal, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied.

68. An image controller according to claim 52 in which said at least one sheet comprises said flexible membrane sheet connected to

a second sheet.

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69". An image controller according to claim **68** in which said second sheet is a circuit board.

70. An image controller according to **claim** in which said second sheet is a rigid membrane support structure.

 \mathcal{H} . An image controller according to claim \mathcal{F} in which said at least one sheet comprises said flexible membrane sheet further supported by a third sheet, said third sheet is a rigid membrane support structure.

nO.

72. An image controller according to **claim** 71 in which said at least one of the finger depressible buttons is associated with a pressure-sensitive variable sensor for providing a proportional signal, whereby depression of said at least one of the finger depressible buttons provides a proportional signal representing the level of depressive pressure applied.

REMARKS

No additional fees are required as the total number of independent and dependent claims is now the same as was paid for in the CPA filing of Aug. 4, 2000.

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No new matter has been added with the now (once amended) claims 38/45/48/54/55, and no new matter has been added with the newly written claims 61-72. New claims 61-72 are believed to be within the scope of the recent CPA prior art search. The claim wording and concepts are fully supported in the originally filed specification.

Claims 61-72 are allowable over the prior art of record for . the same reasoning once amended claims 38 and 48 are allowable.

Independent claims 38 and 48 have been amended by inclusion of the elements of their respective dependant claims, as suggested by the Examiner, (see above response to point 14, "Allowable Subject Matter"), thus bringing amended claims 38 and 48 into proper form for allowance.

Allowance of all pending claims is respectfully requested. Thank you.

Respectfully; NA

Date: 7 September 2000

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Brad A. Armstrong, Inventor / Applicant /Declarant <u>CERTIFICATE OF EXPRESS MAILING</u>

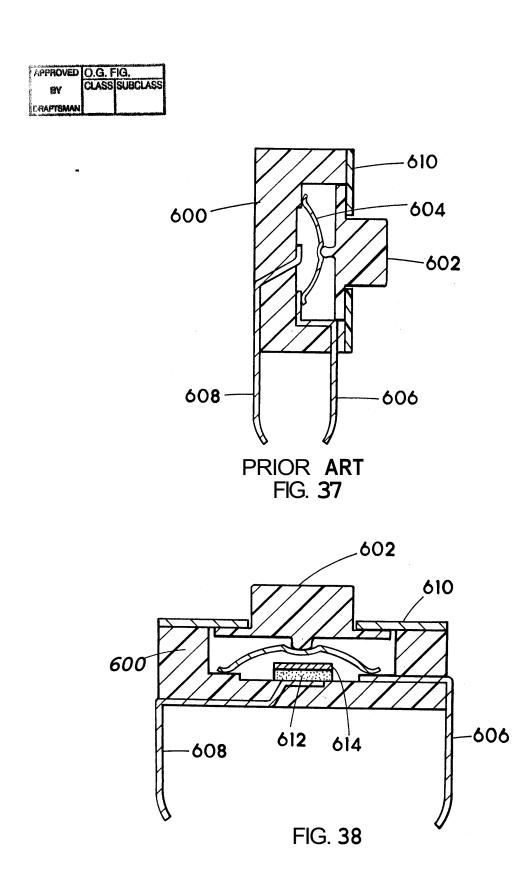
Assistant Commissioner for Patents Washington, D. C. 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL article EK797321469US with sufficient postage paid in an envelope addressed to: Assistant Commissioner of Patents, Washington, D. C. 20231, on this

date: Sept. 7, 2000

Brad A. Armstrong, Inventor / Applicant

Case 9:06-cv-00158-RHC Document 94 Filed 05/21/2007 Page 34 of 44 SEP 0 7 2000 Assistant Commissioner for Patents TRADEM Washington, DC 20231 Attn: Chief Draftsperson Re: Patent Application of Brad A. Armstrong Serial No.: 08/677,378 Filed: 07/05/96 Title: IMAGE CONTROLLERS WITH SHEET CONNECTED SENSORS (as amended) Applicant's address: Brad A. Armstrong P.O. Box 1419 Paradise, CA 95967 Patent Examiner: Brier, J. Art Unit: 2779 Sir: New formal drawing sheet 32 of 50 originally submitted for the above application is enclosed, corrected as required by the Patent Examiner to include the words "PRIOR ART" associated with Fig. 37. The sheet includes only drawing Figs. 37 and 38 Please substitute this sheet for the corresponding sheet on file. Thank you. Respectfully, Date: 7 September 2000 Brad A. Armstrøng, Inventor / Applicant CWTIFICATE OF EXPRESS MAILING • Assistant Commissioner for Patents Washington, D. C. 20231 I hereby certify that this correspondence regarding my above referenced patent application is being deposited with the U.S. Postal Service as EXPRESS mail, article EK797321469US with sufficient postage pre-paid in an envelope addressed to: Box Non-fee Amendments, Assistant Commissioner for Patents, Washington, D. C. 20231, on this date: / Byad A. Armstrong, Inventor / Applicant







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I hereby certify that this correspondence is being deposited - with the United States Postal Service as EXPRESS MAIL POST OFFICE TO ADDRESSEE, mail article EK797321469US with sufficient postage pre-paid in an envelope addressed to: Assistant Commissioner of Patents, Washington, DC 20231, on this

date: 7 September 2000 LA

Brad A. Armstrong, Inventor / Applicant

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UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO. FILING DATE		FIRST NAMED I	TTA	ORNEY DOCKET NO.	
BRAD A ARMST P.O. BOX 141	9	WM11/1010	-7	EXI BRIER, J	AMINER
PARADISE CA	30361			ART UNIT	PAPER NUMBER
				2012	22

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

THE PATENT TERM ADJUSTMENT TO DATE IS 00 DAYS. IF THE PATENT ISSUE FEE IS PAID ON THE DATE THAT IS THREE MONTHS AFTER THE MAILING DATE OF THIS NOTICE AND THE PATENT ISSUES ON THE TUESDAY BEFORE THE DATE THAT IS 28 WEEKS (SIX AND A HALF MONTHS) AFTER THE MAILING DATE OF THIS NOTICE, THE TERM ADJUSTMENT WILL BE 00 DAYS.

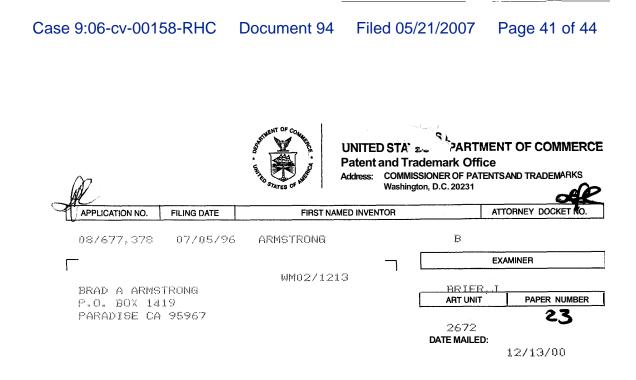
PTO-90C (Rev. 2/95)

U.S. G.P.O. 1999 460-693

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	Application	n No.	Applicant(s)	
Notice of Allowability	08/677,378 Examiner		ARMSTRONG, Art Unit	BRAD A.
-	Jeffery A. E	Brier	2672	
The MAILING DATE of this communication a Il claims being allowable, PROSECUTION ON THE MERITS erewith (or previously mailed), a Notice of Allowance and Iss . This communication is responsive to the amendment f	S IS (OR REMAI sue Fee Due or c	NS) CLOSED in ther appropriate	this application. If not in	cluded
∴ ∑ The allowed claim(s) is/are <u>38,45-48, 54-59, and 67-</u> ∴ The drawings filed on <u>07/05/96 and 09/07/00(sheet 32</u> ∴ Acknowledgment is made of a claim for foreign priority a) _ All b) _ Some* c) _ None of the CEF	<u>2)</u> are acceptable / under 35 U.S.C.	. § 119(a)-(d).		
 received. received in Application No. (Series Code) 	/ Serial Number).			
3. received in this national stage application * Certified copies not received: Acknowledgement is made of a claim for domestic price		Υ.		
SHORTENED STATUTORY PERIOD FOR REPLY to com HREE MONTHS FROM THE "DATE MAILED" of this Office BANDONMENT of this application. Extensions of time may	Action. Failuret	o timely comply	will result in	
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 . Applicant MUST submit NEW FORMAL DRAWINGS (a) because the originally tiled drawings were declared (b) including changes required by the Notice of Draft 1) hereto or 2) to Paper No. (c) including changes required by the proposed draw (d) including changes required by the attached Example 	sperson's Patent	Drawing Reviev		the examiner.
Identifying indicia such as the application number (so drawings. The drawings should be filed as a separate Draftsperson.				
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APPLICATION NO.	FILING DATE	TOTAL CLAIMS		EXAMINER AND GROUP ART		(Date) DATE MAILED
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ATTY'S DOCKET NO.	CLASS-SUBCLASS		APPLN. TYPE		EE DUE	DATE DUE 81/10/01
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

PTO-90C (Rev. 2/95) *U.S. GPO: 2000-473-000/44602



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	Application No.	Applicant(s)
1 x 1	08/677,378	ARMSTRONG, BRADA.
applementel Notice of Allowability	Examiner	Art Unit
	Jeffery A. Brier	2672
The MAILING DATE of this communication Substrate the image of the imag	RITS IS (OR REMAINS) CLOSED in d Issue Fee Due or other appropriat F PATENT RIGHTS. This applicati ee 37 CFR 1.313 and MPEP 1308. <u>o. 22</u> . mal drawings. ority under 35 U.S.C. § 119(a)-(d). Ints have been received. Ints have been received. Ints have been received in Applicatic iority documents have been received 2(a)). priority under 35 U.S.C. & 119(e).	n this application. If not included e communication will be mailed in due cour on is subject to withdrawal from issue at the n No d in this national stage applicati n from the n reply complying with the requirements not
 Pelow. Failure to timely comply will result in ABANDONM Note the attached EXAMINER'S AMENDMENT or the oath or declaration is deficient. A SUBSTITU Applicant MUST submit NEW FORMAL DRAWING (a) including changes required by the Notice of D 	NOTICE OF INFORMAL APPLICA TE OATH OR DECLARATION IS R	TION (PTO-152) which gives reason(s) why EQUIRED.
1) hereto or 2) 🗌 to Paper No		
 (b) including changes required by the proposed c (c) including changes required by the attached E 		
Identifying indicia such as the application numbershould be filed as a separate paper with a transm	r (see 37 CFR 1.84(c)) should be v	vritten on the drawings. The drawings
8. 🗌 Note the attached Examiner's comment regarding	REQUIREMENT FOR THE DEPOS	SIT OF BIOLOGICAL MATERIAL.
Any reply to this letter should include, in the upper right h applicant has received a Notice of Allowance and Issue F ALLOWANCE should also be included.		
Attachment(s)		
1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTC 5 Information Disclosure Statements (PTO-1449), Pap 7 Examiner's Comment Regarding Requirement for De	0-948) 4☐ Interview er No 6⊠ Examine eposit 8☐ Examine	f Informal Patent Application (PTO-152) v Summary (PTO-413), Paper No er's Amendment/Comment er's Statement of Reasons for Allowance
of Biological Material	9 Other	
	9 Utner	Jeffery A. Brier Primary Examiner Art Unit: 2672

Application/Control Number: 08/677,378 Art Unit: 2672 Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The continuing data found on page 4 of the 09/07/2000 amendment has been amended by the examiner by changing "08/847,619" to --07/847,619--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached on (703) 305-4713. The fax phone number for the organizatio'n where this application or proceeding is assigned is (703) 308-6606.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Jung O, Brier Seffery A Brier

deffery A Brier Primary Examiner Art Unit 2672

			08/67?, 378)	
CHANGE OF CORRESPONDENCE ADDRESS Application Address to: Assistant Commissioner for Patents Washington, D.C. 20231		Filing Date	07/05/96	1	
		First Named Inventor	Brad A. Armstrong	S	
		Group Art Unit	2779		
		Examiner Name Attorney Docket Number	Brier, J.	•	
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