EXHIBIT 7

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Case 9:06-cv-00158-RHC Document 94 Filed 05/21/2007 Page 2 of 25 91/2 1 CERTIFICATE OF EXPRESS MAILING Assistant Commissioner for Patents Washington, D. C. 20231 sir: I hereby certify that this complete response regarding pending U.S. Patent Application 09/715,532 is being deposited with the United States Postal Service as EXPRESS mail article number ET663103524US, Post Office to Addressee, with sufficient postage pre-paid in an envelope addressed to: Assistant Commissioner for Patents and Trademarks, Waehington, D. C. 20231, Signature: •." Re: Patent Application of Brad A, Armstrong Applicant's Docket No. 30 Filed: 11/16/2000 Serial No. : 09/715,532 Title: 3D CONTROLLER WITH VIBRATION Applicant's mailing address: Brad A. Armstrong P.O. BOX 1419 Paradise, CA 95967 Examiner: Michael Moyer Group Art Unit: 2675 Sir: REMARKS According to MPEP 714.16(d) and 37 CFR 1.312 Applicant requests amendments to the allowed claims of pending Patent Application 09/715,532. This requested Amendment to pending Patent Application 09/715,532 is being filed after the mailing of the Notice of

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Allowance and Issue Fee due papers, but with payment of the Issue fee.

Applicant believes the claim amendments requested herein make no change to the scope of the claims.

This is Applicant's first opportunity to amend claims following the First Action on the Merits.

None of the requested changes to the claims, in Applicant's opinion, require reopening of prosecution.

Correction to claims 63 and 70 in the recital of the "third element" wherein the word "second" should clearly instead be third — in each of the claims as shown below in Amendments is requested for the purposes of accuracy and clarity of the claim to fix idiomatic mistakes.

Additionally, claims 57, 63 and 70, originally were and currently are intended to be open ended claims, i.e., not excluding additional elements. To more clearly express the open ended intent of these claims the terms "comprising structure" is being inserted in the first line of each of the claim 57, 63 and 70, replacing "structured for". These change8 are for the sake of improved clarity, so that the claims have a more typical and common style.

Also, in claim 57, 63 and 70 the words "for", "useful for" and "structured for" have been deleted in order to more clearly assert the Applicant's original and current intention that 35 USC 112 paragraph 6 is <u>not</u> invoked in determining the scope of these claims.

In claim 63 the wording "to allow controlling of the objects" is inserted to further clarify that the "button sensor" is in Functional cooperation with the other elements of the claim.

None of the requested changes to the claims, in Applicant's opinion, require reopening of prosecution.

Below are Amendments to the Claims in marked up and then in clean versions. Further Remarks follow the Amendments.

AMENDMENTS TO THE CLAIMS IN MARKED UP VERSION Please amend the following claims 57, 63 and 70 wherein underlining shows insertions and bracketing shows deletions. Thank you.

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57. (once amended) A controller <u>comprising structure</u> [structured for) allowing manual inputs to rotate a platform on two mutually perpendicular axes, the rotation tranelated into electrical signals by four unidirectional sensors associated with the platform, the signals at least in part [useful for] controlling objects and navigating a viewpoint, the controller including a vibrator [for] providing vibration detectable by a human user inputing to the controller; the unidirectional sensor8 including spacing preventing false activation by the vibration.

63. (once amended) A hand operated controller **comprising structure** [structured for] allowing hand inputs rotating a **platform** on two mutually perpendicular axes to be translated into electrical outputs by four unidirectional sensors to allow controlling objects and navigating a viewpoint, said unidirectional sensors including spacing generally preventing false activation through vibration, the controller including a tactile feedback means for providing vibration detectable by the user through the hand operating the controller;

a second element movable on two mutually perpendicular axes, said second element structured to activate two bi-directional proportional sensors [for] providing outputs at least in part [useful for] controlling object8 and navigating a viewpoint;

a third element movable on two mutually perpendicular axes, said [second] **third** element structured to activate two **bi**directional proportional sensors [for] providing outputs **at** least in part [useful for] controlling objects and navigating a viewpoint;

a plurality of independent finger depressible buttons, each $\dot{}$ button associated with

a button sensor, said button sensor outputs at least On/Off data to allow controlling of the objects.

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70. (once amended) A hand operated controller **comprising structure** [structured for] allowing hand inputs rotating a platform on two mutually perpendicular axes to be translated into electrical outputs, the controller structured with four unidirectional sensors to allow controlling objects and navigating a viewpoint, said unidirectional sensors including spacing generally preventing false activation through vibration, the controller including an electro-mechanical tactile feedback means for providing vibration detectable by the user through the hand operating the controller;

a second element movable on two mutually perpendicular axes, said second element structured to activate two bi-directional proportional sensors;

a third element movable on two mutually perpendicular axes, said **third** [second] element structured to activate two bidirectional proportional sensors;

a plurality of independent finger depressible buttons, each button associated with

a button **sensor**, said button sensor outputs at least On/Off data;

the sensors are connected by at least one sheet, said at least one sheet comprises

a flexible membrane sheet connected to

a circuit board sheet,

AMENDMENTS TO THE CLAIMS IN CLEAN VERSION

Although only claims 57, 63 and 70 are amended above,. all of the claims are shown below in clean form for use in the application and patent.

39. A 3-D graphics controller used with a television bared game, comprising:

a game, said game at least in part controlled by

circuitry, said circuitry located on

at least one sheet, said at least one sheet comprising:

a circuit board sheet connected to

a flexible membrane sheet;

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors at least in part connected to said at least one sheet, said four unidirectional sensors useful to control said game;

a second element with structure to activate

a first two rotary potentiometers, said first two rotary potentiometers at least in part connected to said at least one sheet, raid first two rotary potentiometers useful to control said game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers at least in part connected to said at least one sheet, said second two rotary potentiometers useful to control said game;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of a user, said first button sensor at least in part connected to said at least one sheet, said first button sensor create8 simple switched On/Off data useful to control said game;

an independent pivotal second button structured to activate a second button sensor, said second button pivots upon depression by a single finger of the user, said second button

sensor at least in part **connected** to said at least one sheet, eaid **second** button sensor capable of outputing a proportional signal useful to control said game;

an independent pivotal third button structured to activate

a third button sensor, said third button pivotal upon depression by a single finger of the user, said third button sensor at least in part connected to said at least one sheet, said third button sensor capable of outputing a proportional signal useful to control said game;

aative tactile feedback vibration detectable by the user, of said game. \\

40. A 3-D graphics aontroller used with a television based game according to claim 39 wherein said active tactile feedback vibration is provided by a motor and offset weight.

41. A 3-D graphics controller for controlling a television based game, comprising:

circuitry located at least in part on

at least one sheet, said at least one sheet comprising:

a circuit board sheet; said circuit board sheet

connected with

a flexible membrane sheet;

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors at least in part connected to said at least one sheet, said four unidirectional sensors useful to control the game;

a second element with structure to activate

a first two rotary potentiometers, said first two rotary potentiometers at least in part connected to said at least one sheet, said first two rotary potentiometers useful to control the game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers at least in part connected to said at least

one sheet, said second two rotary potentiometers useful to control the game;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of a user, said first button sensor at least in part connected to said at least one sheet, said first button sensor creates simple switched On/Off data useful to control the game;

an independent pivotal second button structured to activate a second button sensor, said second button pivots upon

depression by a single finger of the user, said second button sensor at least in part connected to said at least one sheet, said second button sensor capable of outputing a proportional signal useful to control the game;

an independent pivotal third button structured to activate

a third button sensor, said third button pivotal upon depression by a single finger of the user, said third button sensor at least in part connected to said at least one sheet, said third button sensor capable of outputing a proportional signal useful to control the game;

tactile feedback means for providing vibration detectable by the user of the game, said tactile feedback means connected to said circuitry.

42. A 3-D graphics controller according to claim 41 wherein said tactile feedback means comprises a motor and offset weight.

43. A 3-D graphics controller for controlling a television based game, comprising:

circuitry located at least in part on

at least one sheet, said at least one sheet comprising: a circuit board sheet; said circuit board **sheet**

connected with

a flexible membrane sheet;

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors at least in part connected to said at least one sheet, said four unidirectional sensors useful to control the game; a second element with structure to activate

a first two rotary potentiometers, said **first** two rotary potentiometers at least in part connected to said at least one sheet, said first two rotary potentiometers useful to control the game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers at least in part connected to eaid at least one eheet, said second two rotary potentiometere useful to control the game;

an independent first button structured to activate

a first button sensor, eaid first button depressible by a single finger of a user, said first button sensor at least in part connected to eaid at least one sheet, said first button sensor creates simple switched on/off data useful to control the game;

an independent pivotal second button structured to activate

a second button sensor, eaid second button pivots upon depression by a single finger of the user, said second button sensor at least in part connected to said at least one sheet, said second button sensor capable of outputing a proportional signal useful to control the game;

an independent pivotal third button structured to activate

a third button sensor, said third button pivotal upon depression by a single finger of the user, eaid third button sensor at least in part connected to said at least one sheet, said third button sensor capable of outputing a proportional signal useful to control the game.

44. A 3-D graphics controller for controlling a television based game, comprising:

circuitry located at least in part on

a flexible membrane sheet;

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors at least in part connected to said at least one sheet, said four unidirectional sensors useful to control the game;

a second element with structure to activate

a first two rotary potentiometers, said first two rotary potentiometers at least in part connected to said at least one **sheet**, said first two rotary potentiometers useful to control the game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers at least in part connected to said at least one sheet, said second two rotary potentiometers useful to control the game;

an independent first button structured to activate

a pressure-sensitive first button sensor useful to control the game, said first button depressible by a single finger of a user, said first button sensor at least in part connected to said at least one sheet, said first button sensor capable of outputing a proportional signal representing amount of pressure applied to said first button;

an independent second button structured to activate

a pressure-sensitive second button sensor useful to control the game, said second button depressible by a single finger of the user, said second button sensor at least in part connected to said at least one sheet, said second button sensor capable of outputing a proportional signal representing amount of pressure applied to said second button;

tactile feedback vibration in the controller detectable by the user of the game.

45. A 3-D graphics controller according to claim 44 wherein said tactile feedback vibration is supplied by a motor and offset weight.

46. A 3-D graphics controller according to claim 44 wherein said controller further includes an independent third button structured to activate

a third button sensor, said third button depressible by a single finger of the user, 'said third button sensor at least in part connected to said at least one sheet, said third button sensor creates simple switched On/Off data useful to control the game.

47. A 3-D graphics controller for controlling a television based game, comprising:

circuitry located at least in part on

at least one sheet, said at least one sheet comprising:

a circuit board sheet connected to

a flexible membrane sheet;

a first element structured to activate

four unidirectional sensors,. said four unidirectional sensors at least in part connected to said at least one sheet, said four unidirectional sensors useful to control the game;

a first rotary potentiometer at least in part connected to said at least one sheet, said first rotary potentiometer useful to control the game;

a second rotary potentiometer at least in part connected to said at least one sheet, said second rotary potentiometer useful to control the game;

a third rotary potentiometer at least in part connected to said at least one sheet, said third rotary potentiometer useful to control the game;

a fourth rotary potentiometer at least in part connected to said at least one sheet, said fourth rotary potentiometer useful to control the **game**;

an independent first button structured to activate a pressure-sensitive first button sensor useful to control the game, said first button depressible by a **single** finger of a user, said first button sensor at least in part connected to said at least one sheet, said first button sensor capable of outputing a proportional signal representing amount of pressure applied to said first button;

an independent second button structured to activate

a pressure-sensitive second button sensor useful to control the game, said second button depressible by a single finger of the user:, said second button sensor at least in part connected to said at least one sheet, said second button sensor capable of outputing a proportional signal representing **amount** of pressure applied to said second button;

tactile feedback vibration in the controller detectable by the user of the game.

48. A 3-D graphics controller according to claim 47 wherein said controller further includes an independent third button structured to activate

a third button sensor, said third button depressible by a single finger of the user, said third button sensor at least in part connected to said at least one sheet, said third button sensor creates simple switched On/Off data useful to control the game.

49. A 3-D graphics controller according to claim 47 wherein said tactile feedback vibration is provided by a motor and offset weight.

50. A 3-D graphics controller used with a television based game:, comprising:

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors useful to control said game; said four unidirectional

a second element with structure to activate

a first two rotary potentiometers, said first two rotary potentiometers at least in part connected to said circuitry, said first two rotary potentiometers useful to control said game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers at least in part connected to said circuitry, said second two rotary potentiometers useful to control said game;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of a user, said first button sensor at least in part connected to said circuitry, said first button sensor creates simple switched On/Off data useful to control said game; an independent pivotal second button structured to activate

a second button sensor, said second button pivots upon

depression by a single finger of the user, said second button sensor at least in part connected to said circuitry, said second button sensor capable of outputing a proportional signal useful to control said game;

an independent pivotal third button structured to activate a third button sensor, said third button pivotal upon depression by a single finger of the user, safd third button sensor at least in part connected to said circuitry, said third

button sensor capable of outputing a proportional signal useful to control said game;

active tactile feedback vibration detectable by the user of said game, said active tactile feedback vibration provided by an offset weight connected to

a motor, said motor at least in part connected to said circuitry.

51. A 3-D graphics controller used with a television based game, comprising:

a first element structured to activate

four unidirectional sensors, said four unidirectional sensors used to control said game;

a second element with structure to activate

a first two rotary potentiometers, said first two rotary potentiometers used to control said game;

a third element with structure to activate

a second two rotary potentiometers, said second two rotary potentiometers used to control said game;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of a user, said first button sensor creates simple switched On/Off data used to control said game;

an independent pivotal second button structured to activate a second button sensor, said second button pivots upon depression by a single finger of the user, said second button

sensor capable of outputing a proportional signal used to control said game;

an independent pivotal third button structured to activate a third button sensor, said third button pivotal upon depression by a single finger of the user, said third button sensor capable of outputing a proportional signal used to control

said game;

an offset weight is connected to

a motor to provide active tactile feedback used to provide vibration to the user of said game.

52. A 3-D graphics controller used with a television based game, comprising:

a first element movable on two axes, said first element structured to activate

four unidirectional sensors, said four unidirectional sensors used to input a first axis and a second axis of control

for the game;

a first bi-directional proportional sensor, said first bidirectional proportional sensor used to input a third axis of control for the game;

a second bi-directional proportional sensor, said second bidirectional proportional sensor used to input a fourth axis of control for the game;

a third bi-directional proportional sensor, said third bidirectional proportional sensor used to input a fifth axis of control for the game;

a fourth bi-directional proportional sensor, said fourth bidirectional proportional sensor used to input a sixth axis of control for the game;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of the user, said first button sensor capable of outputing a proportional signal used to control the game;

an independent second button structured to activate

a second button sensor, **said** second button depressible by a single finger of the user, said second button sensor capable of outputing a proportional signal used to control the game;

a sheet connecting to at least eight of the sensors.

53. A 3-D graphics controller used with a television based game, comprising:

a housing;

a first element structured to activate four unidirectional sensors used to control a television based game, said first element supported at least in part by said housing and sufficiently exposed to allow two axes of input;

a second element structured to activate a first two bidirectional proportional sensors used to control the game, said second element supported at least in part by said housing;

a third element structured to activate a second two bidirectional proportional sensors used to control the game, said

third element supported at least in part by said housing;

an independent first button sensor, said first button sensor depressible by a single finger of a user, said first button sensor creates simple switched On/Off data used to control the game, said independent first button sensor at least in part connected to

a sheet;

an independent pivotal second button structured to activate a second button sensor, said second button pivots upon

depression by a single finger of the user, said second button sensor at least in part connected to said sheet, said second button sensor capable of outputing a proportional signal used to control the game;

an independent pivotal third button structured to activate

a third button sensor, said third button pivotal upon depression by a single finger of the user, said third button sensor at least in part connected to said sheet, said third button sensor capable of outputing a proportional signal used to control the game;

an offset weight connected to

a motor, said motor supported within said housing.

54. A 3-D graphics controller for controlling a **television** based game, comprising:

a first element structured to activate four unidirectional sensors, said four unidirectional sensors useful to control the television based game; said four unidirectional sensors at least in part connected to

a first rheet;

a second element structured to activate a first two bidirectional proportional sensors, said first two bi-directional proportional sensors at least in part connected to said first sheet, said first two bi-directional sensors useful to control

the television based game;

a third element structured to activate a second two bidirectional proportional sensors, said second two bi-directional proportional sensors useful to control the television based game; said second two bi-directional proportional sensors at least in part connected to

a second sheet, said first eheet located on a first plane, and said second sheet located on a second plane;

an independent first button sensor, said first button sensor depressible by a single finger of the user, said first button sensor at least in part connected to said first sheet, **said** first button sensor capable of transforming depression into a proportional signal useful to control the television based game;

an independent second button sensor, said second button sensor depressible by a single finger of the user, said second button sensor at least in part connected to said first eheet, said second button sensor capable of transforming depression into a proportional signal useful to control the television based game;

tactile feedback means for providing vibration detectable by the user of said electronic game, said tactile feedback means supported within said controller.

55. A 3-D graphics controller for controlling a game, comprising:

a first element structured to activate four unidirectional sensors, said four unidirectional sensor8 useful to control a game; said four unidirectional sensors at least in part connected to

a first sheet;

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a second element structured to activate a first two bidirectional proportional sensors, said first two bi-directional proportional sensors at least in part connected to said first sheet, said first two bi-directional sensors useful to control the game;

a third element structured to activate a second two bidirectional proportional sensors, said second two bi-directional sensors useful to control the game; said second two bidirectional proportional sensors at least in part connected to a second **sheet**, said first sheet located on a first plane, and said second sheet located on a second plane within "said 'controller;

an independent first button, said first button depressible by a single finger of the user, said first button positioned to activate a first proportional sensor and said first button positioned to activate a simple switched On/Off sensor useful to control the game; said first proportional sensor connected to said first sheet, said first proportional sensor capable of transforming depression of said first button into a proportional signal useful to 'control said electronic game;

an independent second button, said second button depressible by a single finger of the user, said second button positioned to activate a second proportional sensor and said second button positioned to activate a simple switched On/Off sensor useful to control said electronic game; said second proportional sensor connected to said first sheet, said second proportional sensor capable of transforming depression of said second button into a proportional signal useful to control said electronic game;

tactile feedback means for providing vibration detectable by the user of said electronic game, said tactile feedback means supported within said controller.

56. A 3-D graphics controller according to claim 55 wherein the first and the second proportional sensors are each unidirectional sensors.

57. (once amended) A controller comprising structure allowing manual inputs to rotate a platform on two mutually perpendicular axes, the rotation translated into electrical signals by four unidirectional sensors associated with the

platform, the signals at least in part controlling objects and navigating a viewpoint, the controller including a vibrator providing vibration detectable by a human user inputing to the controller; the 'unidirectional sensors including spacing preventing false activation by the vibration.

58. A controller according to claim 57 wherein said controller further has a plurality of independent depressible . buttons, said buttons structured to activate button sensors, 'said button sensors output electrical signals proportionate to depression of said buttons.

59. A controller according to claim 58 wherein said button sensors also output On/Off data.

60. A controller according to claim 59 wherein additional independently depressible buttons output only On/Off data.

61. A controller according to claim 58 wherein said controller further includes a second element movable on two perpendicular axes, said second element structured and **positioned** to activate two bi-directional proportional sensors.

62. A controller according to claim 58 wherein said two bidirectional proportional sensors are rotary potentiometers.

63. (once amended) A hand operated controller comprising structure allowing hand inputs rotating a platform on two mutually perpendicular axes to be translated into electrical outputs by four unidirectional sensors to allow controlling objects and navigating a viewpoint, said unidirectional sensors including spacing generally preventing false activation through vibration, the controller including a tactile feedback means for providing vibration detectable by the user through the hand operating the controller;

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a second element movable on two mutually perpendicular axes, said second element structured to activate two bi-directional proportional sensors providing outputs at least in part controlling objects and navigating a viewpoint;

a third element movable on two mutually perpendicular **axes**, said third element structured to activate two bi-directional proportional sensors providing outputs at least in part controlling objects and navigating a viewpoint;

a plurality of independent finger depressible buttons, each button associated with

a button sensor, **said** button sensor outputs at least **On/Off** data to allow controlling of the objects.

64. A hand operated controller according to claim 63 wherein the sensors are connected by at least one sheet.

65. A'hand operated controller according to claim 64 wherein said at least one sheet comprises a flexible membrane sheet connected to a substantially rigid circuit board **sheet.**

66. A hand operated controller according to claim 65 wherein said button sensor outputs data proportionate to depression of one of said buttons.

67. A hand operated controller according to claim 66 wherein the bi-directional proportional sensors are rotary potentiometers.

68. A hand operated controller according to claim 66 wherein the bi-directional proportional sensors are optical encoders.

69. A hand operated controller according to claim 66 wherein said tactile feedback means comprises a motor and offset ,weight.

70. (once amended) A hand operated controller comprising structure allowing hand inputs rotating a platform on two mutually perpendicular axes to be translated into electrical outputs, the controller structured with four unidirectional sensors to allow controlling objects and navigating a viewpoint, said unidirectional sensors including spacing generally preventing false activation through vibration, the controller including an electro-mechanical tactile feedback means for providing vibration deteotable by the user through the hand operating the controller;

a second element movable on two mutually perpendicular axes, said second element structured to activate two bi-directional proportional sensors;

a third element movable on two mutually perpendicular axes, said third element structured to activate two bi-directional proportional sensors;

a plurality 'of independent finger depressible buttonr, $\ensuremath{\,\mathsf{ach}}$ button associated with

a button sensor, said button **sensor** outputs at least **On/Off** data;

the sensors are connected by at least one sheet, said at least one sheet comprises

a flexible membrane sheet connected to

a circuit board sheet.

71. A hand operated controller according to claim 70 wherein said button sensor outputs data proportionate to depression of one of said buttons.

72. A hand operated controller according to claim 71 wherein at least two of said buttons pivot upon depression to activate their respective proportional sensors.

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73. A hand operated controller according to claim 72 wherein the bi-directional proportional sensors are rotary potentiometers.

74. A hand operated controller according to claim 72 wherein the bi-directional proportional sensors are optical encoders.

75. A hand operated controller according to claim 71 wherein said tactile feedback means comprises a motor and offset weight.

76. A 3-D graphics controller having an economical combination of elements and buttons allowing a user to control a television based game, the controller comprising:

a housing;

a first element structured to activate four unidirectional sensors used to control a television based game, said first element supported at least in part by said housing and sufficiently exposed to allow two axes of input;

a second element structured to activate a first two rotary potentiometers used to control the game;

a third element structured to activate a second two rotary potentiometers used to control the game;

a circuit board supporting circuitry, said circuit board located in said housing, the rotary potentiometers mounted to said circuit board;

an independent first button structured to activate

a first button sensor, said first button depressible by a single finger of the user, said first button sensor at least in part supported by said housing, said first button sensor capable of outputing a proportional signal used to control the game;

an independent second button structured to activate

a second button sensor, said second button depressible by a single finger of the user, said second button sensor at

least in part supported by said housing, said second button sensor capable of outputing a proportional eignal used to control the game;

active tactile feedback structure located in said housing.

77. A 3-D graphics controller according to claim 76 wherein said active tactile feedback structure includes

an offset weight connected to

a motor,

REMARKS

In the claims the use of the wording "television based game" is intended to mean or be defined as a game that can be displayed by a television. The game may actually run on an image generation machine such as a game console, set-top box or the like, linked to a television. If the Examiner did not examine the claims with this or a closely similar definition in mind, then the Examiner is respectfully requested to notify Applicant of such in writing,

In the claims the use of the wording "3-D graphics^a is intended to mean or be defined as imagery displayed by a television or the like and the imagery has depth, so that, as a first example, when a distant object passes behind a close object, the close object obscures all or part of the distant object, and as a second example, a 3-D object displayed on the television may rotate or appear to rotate as the portion of the object which the viewer would normally see in a real world object is displayed and the portion which the viewer would not normally see is not displayed, Thus "3-D graphics" mimic our three dimensional world but may be displayed on a two dimensional television sareen. No special equipment (e.g. 3-D glasses or the like) is required to view "3-D graphics" as displayed by a television. If the Examiner did not examine the claims with this or a closely similar definition in mind, then the Examiner is respectfully requested to notify Applicant of such in writing.

In the claims the use of the wording "hand", 'hand inputs",

as to derive an information signal in response to motion of any part of the hand." Applicant believes the above Patent Office definition is fully supported in Applicant's disclosure and is consistent with Applicant's original and current intent. If the Examiner did not examine the claims with this or a closely similar definition in mind, then the Examiner is respectfully requested to notify Applicant of such in writing.

In the claims the use of the word "element" is intended to mean or be defined as a singular structure, member, part, component or the like, or a plurality of structures, members, parts, components or the like, as disclosed in Applicant's disclosure and their equivalents, If the Examiner did not examine the claims with this or a closely similar definition in mind, then the Examiner is raepectfully requested to notify Applicant of such in writing.

Also, please do not hesitate to telephone me at 530 872 4901 if I may be of any assistance. Thank you.

Reepectfully, Brad A. Armstropg, Applicant

Date: March 11, 2003