UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CRESTRON ELECTRONICS, INC. Petitioner,

v.

INTUITIVE BUILDING CONTROLS, INC. Patent Owner.

Case IPR2015-01379 Patent 5,945,993

Mailed: June 19, 2015

Before PATRICK E. BAKER, Trial Paralegal.

CORRECTED PETITION

This corrected petition is Petitioner's response to the defects identified by the Board in Paper No. 4.

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I. EXHIBIT LIST UNDER 37 C.F.R. §42.63(E)

The following is a list of exhibits in support of this petition:

Exhibit	Description
1001	U.S. Patent No. 5,945,993, filed January 30, 1998 and issued August 31, 1999 to Marc Werner Fleischman, entitled "Pictograph-Based Method and Apparatus for Controlling a Plurality of Lighting Loads" (hereinafter "the '993 patent").
1002	Declaration of Dr. Peter M. Corcoran (hereinafter "Declaration").
1003	Notice of Allowance issued on April 5, 1999 in the '993 patent (hereinafter "NOA").
1004	Excerpts from <i>Barron's Dictionary of Computer and Internet Terms</i> , 6th ed., 1998 (hereinafter " <i>Barron's</i> ").
1005	Excerpts from <i>The New Lexicon Webster's Dictionary of the English Language</i> , 1995, vol. 2 (hereinafter " <i>Lexicon</i> ").
1006	Excerpts from Webster's New World Dictionary of Computer Terms, 6th ed. 1997 (hereinafter "Webster's").
1007	Excerpts from Oxford Paperback Reference Dictionary of Computing, 4th ed. 1997 (hereinafter "Oxford").
1008	Excerpts from <i>Microsoft Press Computer Dictionary</i> , 3d ed. 1997 (hereinafter " <i>Microsoft</i> ").
1009	Affidavit of Christopher Butler, Office Manager of Internet Archive, attesting that attached thereto are printouts of webpages which were publicly available at the following addresses on November 14, 1996:
	http://www.savoysoft.com/index.htm (page 3 of Exhibit 1009) http://www.savoysoft.com/Overview.htm (pages 4-5 of Exhibit 1009) http://www.savoysoft.com/Company.htm (page 6 of Exhibit 1009) http://www.savoysoft.com/housemgr.htm (page 7 of Exhibit 1009) http://www.savoysoft.com/lighting.htm (page 8 of Exhibit 1009) http://www.savoysoft.com/page2.html (page 9 of Exhibit 1009) http://www.savoysoft.com/page3.html (page 10 of Exhibit 1009) http://www.savoysoft.com/page6.html (page 11 of Exhibit 1009)
	http://www.savoysoft.com/page0.html (page 11 of Exhibit 1009)

Exhibit	Description
	http://www.savoysoft.com/page8.html (page 13 of Exhibit 1009) http://www.savoysoft.com/page9.html (page 14 of Exhibit 1009) http://www.savoysoft.com/page13.html (page 15 of Exhibit 1009)
	These webpages will be collectively referred to herein as a single reference (hereinafter "SavoySoft").
1010	Printout of a file included as /htdocs/Architecture/index.htm on a copy of the CyberHouse Release 2 CD-ROM provided to Petitioners by Dr. David L. Nelson, founder of Savoy Software Development. Exhibit 1010 is being relied upon in the present Petition and accompanying Declaration (Exhibit 1002) solely for the purposes permitted by MPEP 2141.03(I) and the cases cited therein.
1011	Peter House, "CEBus for the Masses," Home Automation & Building Control, April 1995, p. 61-68 (hereinafter " <i>House</i> ") qualifies as prior art relative to the '993 patent at least under 35 U.S.C. §102(b).
1012	Peter M. Corcoran et al., "CEBus Network Access via the World-Wide-Web," 1996 Digest of Technical Papers, International Conference on Consumer Electronics, June 1996, p. 236-237 (hereinafter "Corcoran96") qualifies as prior art relative to the '993 patent at least under 35 U.S.C. §102(b).
1013	Glenn Fleishman, "Image Mapping," <i>Adobe.Mag</i> , Issue #3, 10 pages, May 1, 1996 (hereinafter " <i>Fleishman</i> ") qualifies as prior art relative to the '993 patent at least under 35 U.S.C. §102(b).
1014	Dave Raggett, World Wide Web Consortium (W3C) Recommendation, "HTML 3.2 Reference Specification," http://www.w3.org/TR/REC-html32, 48 pages, January 14, 1997 (hereinafter " <i>REC-html32</i> ") qualifies as prior art relative to the '993 patent at least under 35 U.S.C. §102(b).
1015	U.S. Patent No. 5,400,246 to Wilson et al., issued March 21, 1995 (hereinafter "Wilson") qualifies as prior art relative to the '993 patent at least under 35 U.S.C. §102(b).

II. CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. §42.6(e) and 37 C.F.R. §42.105, the undersigned certifies that on June 19, 2015, a complete and entire copy of this Corrected Petition for *Inter Partes* Review were provided via United Parcel Service (UPS Tracking Number 1Z2FY5730292126392), costs prepaid, to Patent Owner at the official correspondence address shown in PAIR, as follows:

Hewlett-Packard Company Intellectual Property Administration 3404 E. Harmony Road Mail Stop 35 Fort Collins, CO 80528

All supporting exhibits cited herein were previously sent on June 11, 2015 via United Parcel Service (UPS Tracking Number 1Z2FY5730292017876), costs prepaid, to Patent Owner at the above address.

III. TABLE OF AUTHORITIES

CASES

Boehringer Ingelheim Vetmedica v. Schering-Plough Corp., 320 F.3d 1339 (Fed. Cir. 2003)
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IV. MANDATORY NOTICES UNDER 37 C.F.R. §42.8(A)(1)

A. Real Party in Interest under 37 C.F.R. §42.8(b)(1)

Petitioner, Crestron Electronics, Inc. is the real party-in-interest.

B. Related Matters under 37 C.F.R. §42.8(b)(2)

The '993 patent has been judicially asserted in the following cases, each of which was filed on April 15, 2015 and remains pending in the U.S. District Court for the Eastern District of Texas:

Docket No.	Caption
2:15-cv-00500	Intuitive Building Controls, Inc. v. AMX LLC
2:15-cv-00502	Intuitive Building Controls, Inc. v. Crestron Electronics, Inc.
2:15-cv-00503	Intuitive Building Controls, Inc. v. Control4 Corporation

Petitioner is not aware of any related administrative proceedings. However, Petitioner intends to file petitions for *inter partes* review of U.S. Patent No. 6,118,230 (hereinafter "the '230 patent") and U.S. Patent No. 6,160,359 (hereinafter "the '359 patent"). The '230 patent and the '359 patent are related to the '993 patent: all three patents were filed concurrently by the same inventor, have substantially similar specifications, and have sufficiently similar claims to necessitate the filing of terminal disclaimers to overcome obviousness-type double patenting rejections in the '230 patent and the '359 patent. Moreover, the '230

patent and the '359 patent, in addition to the '993 patent, have been asserted against the Petitioner by the Patent Owner in the aforementioned litigation.

C. Lead And Back-Up Counsel Under 37 C.F.R. §42.8(b)(3) and §42.10(a)

Designation of counsel for Petitioner is as follows:

Lead Counsel	Backup Counsel
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A Power of Attorney under 37 C.F.R. §42.10(b) is submitted herewith.

D. Service Information Under 37 C.F.R. §42.8(b)(4)

Lead counsel for Petitioner may be served by mail, courier or hand at:

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E. Payment of Fees Under 37 C.F.R. §42.103 and 37 C.F.R. §42.15(a)

Please charge all fees due in connection with the present *Inter Partes*Review to Deposit Account No. <u>505234.</u>

V. GROUNDS FOR STANDING UNDER 37 C.F.R. §42.104(A)

Petitioner certifies that the patent for which review is sought is available for *inter partes* review and that Petitioner is not barred or estopped from requesting an *inter partes* review challenging the claims on the grounds identified in the petition.

VI. CHALLENGE UNDER 37 C.F.R. §42.104(B) AND PRECISE RELIEF REQUESTED

A. Identification of claims challenged under 37 C.F.R. §42.104(b)(1)

Petitioner requests *inter partes* review of claims 1-22 of the '993 patent, including independent claims 1, 12 and 16. Petitioner is not conceding that the grounds presented herein are the only grounds applicable to the challenged claims. Indeed, the only reason why Petitioner has not presented additional challenges to the validity of the '993 patent based on prior art in the present proceeding is because of the 60-page limit imposed by 37 C.F.R. §42.24(a)(1)(i).

- B. <u>Statutory grounds and patents or printed publications relied upon for each ground.</u> 37 C.F.R. §42.104(b)(2).
 - 1. Claims 1-22 are anticipated under 35 U.S.C. §102(b) by SavoySoft (Exhibit 1009)
 - 2. Claims 1-22 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009)
 - 3. Claims 1-22 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009) and House (Exhibit 1011)

- 4. Claims 6-8, 19 and 20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009) and Corcoran96 (Exhibit 1012)
- 5. Claims 6-8, 19 and 20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), House (Exhibit 1011) and Corcoran96 (Exhibit 1012)
- 6. Claims 3-5, 14, 17 and 18 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), Corcoran96 (Exhibit 1012), and Fleishman (Exhibit 1013)
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- 9. Claims 3-8, 14 and 17-20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), House (Exhibit 1011), and REC-html32 (Exhibit 1014)
- 10. Claims 1, 2, 9-12, 15, 16, 21 and 22 are anticipated under 35 U.S.C.§102(b) by Wilson (Exhibit 1015)
- 11. Claims 1, 2, 9-12, 15, 16, 21 and 22 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015)

- 12. Claims 6-8, 19 and 20 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015) and Corcoran96 (Exhibit 1012)
- 13. Claims 3-5, 14, 17 and 18 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015), Corcoran96 (Exhibit 1012), and Fleishman (Exhibit 1013)
- 14. Claims 3-8, 14 and 17-20 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015) and REC-html32 (Exhibit 1014)

C. How claims are to be construed under 37 C.F.R. §42.104(b)(3)²

With the sole exception of the recitation of "means for connecting to a computer network" in dependent claim 2, none of the challenged claims contain a means-plus-function or step-plus-function limitation, as permitted under 35 U.S.C. §112(f). Therefore, each claim term should be given its broadest reasonable construction in light of the specification³, and more particularly each claim term

² See, e.g., IFR FR, 77 Fed. Reg. at 48700 ("Petitioners are not required to define every claim term, but merely to provide a statement that the claim terms are presumed to take on their ordinary and customary meaning, and to point out any claim term that has a special meaning and the definitions in the specification.")

³ See, e.g., 37 C.F.R. §42.100(b) and *In re Cuozzo Speed Technologies, LLC*, 778 F.3d 1271, 1279-82 (Fed. Cir. 2015).

should be presumed to encompass its ordinary meaning to one skilled in the art as of the filing date of the '993 patent, as further discussed in Declaration (Exhibit 1002) at paragraphs 27-36.

The USPTO is not bound in the present proceeding by any prior or future court claim constructions issued during litigation⁴. However, the Patentee may be estopped from asserting any claim construction positions before the USPTO contrary to those asserted during litigation⁵.

1. Construction of "means for connecting to a computer network"

This recitation within dependent claim 2 is a means-plus-function limitation. "Under section $112 \, \P$ 6, now recodified as 35 U.S.C. section 112(f), a means-plus-function claim limitation includes both the corresponding structures disclosed by the specification as means of performing the function, and the equivalents of those structures. . . . For purposes of section 112(f), an equivalent of the disclosed structure performs the same function as the disclosed structure, in substantially the

⁴ See, e.g., IFR FR, 77 Fed. Reg. at 48697, citing *In re NTP, Inc.*, 654 F.3d 1268, 1274 (Fed. Cir. 2011).

⁵ See, e.g., *In re Trans Texas Holdings Corp.*, 498 F.3d 1290, 1297 (Fed. Cir. 2007), citing *In re Freeman*, 30 F.3d 1459, 1469 (Fed. Cir. 1994).

same way, with substantially the same result." *Regents of the Univ. of Minn. v. AGA Medical Corp.*, 717 F.3d 929, 941 (Fed. Cir. 2013).

The '993 patent discloses several corresponding structures as means for performing the function of "connecting to a computer network" recited in claim 2. See, e.g., column 4, lines 24-27, with reference to FIG. 1 ("The web browser 22 can be a first personal computer 48 including . . . a network card 52 for communicating over the computer network 24.") (emphasis added); column 5, lines 40-44, with reference to FIG. 1 ("The Virtual Light Switch 20 can be a second personal computer 76 including. . . a network card 84 for communicating over the computer network 24.") (emphasis added); and column 9, lines 25-30 ("he could dial into the computer network 24 using a modem or ISDN line on his home computer") (emphasis added). Thus, the recited "means for connecting to a computer network" encompasses a network card, a modem, or ISDN line, and any equivalents of those disclosed structures (i.e., any structure which performs the same function in substantially the same way with substantially the same result).

Solely in order to expedite review of claim 2 under §102 and §103, Petitioner will presume that "a computer network" recited in dependent claim 2 refers to the same "computer network" as that recited in independent claim 1. Because challenges under §112 cannot be raised in an *inter partes* review, Petitioner expressly reserves

the right to challenge the validity of claim 2 under §112 in one or more subsequent administrative and/or judicial proceedings.

2. Claim limitations which are not entitled to patentable weight

a. "whereby the lighting control request is used for controlling the lighting load corresponding to the selected representation"

These limitations, found in each independent claim, are directed solely to the intended use of the lighting control request and hence are not entitled to patentable weight. See, e.g., Minton v. Nat'l Ass'n of Securities Dealers, Inc., 336 F.3d 1373, 1381 (Fed. Cir. 2003) (A "clause in a method claim is not given weight when it simply expresses the intended result of a process step positively recited."); Boehringer Ingelheim Vetmedica v. Schering-Plough Corp., 320 F.3d 1339, 1345 (Fed. Cir. 2003) ("An intended use or purpose usually will not limit the scope of the claim because such statements usually do no more than define a context in which the invention operates."); In re Schreiber, 128 F.3d 1473, 1477 (Fed. Cir. 1997) ("It is well settled that the recitation of a new intended use for an old product does not make a claim to that old product patentable.") See also MPEP 2114(I), citing Schreiber, 128 F.3d at 1477-78 ("While features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function.")

b. "an interface module adapted to be coupled to a power/communications bus; and wherein the instructions further

instruct the computer to translate the lighting control requests into digital commands for the interface module"

Although these limitations are recited in dependent claim 11, the '993 patent admits at column 3, lines 26-50, that such features were "commonly used in lighting control systems" prior to its filing: "The digital commands CMD are sent to an interface module 28. The interface module 28 allows the server 26 to link into the power/communications bus 16. Typically, the interface module 28 does not adhere to an open standard; instead, it expects the digital commands CMD to be in a proprietary format. Therefore, the server 26 generates the digital commands CMD in the proprietary format. Such relays 14, power/communication buses 16 and interface modules 28 are commonly used in lighting control systems. For example, the interface module 28 can be a TLC Dataline Communications Interface Module, which is available from GE Lighting Controls."

These admissions may be properly relied upon in rejecting claim 11. See, e.g., *PharmaStem Therapeutics, Inc. v. ViaCell, Inc.*, 491 F.3d 1342, 1362 (Fed. Cir. 2007) ("Admissions in the specification regarding the prior art are binding on the patentee for purposes of a later inquiry into obviousness."); *Constant v. Advanced Micro-Devices, Inc.*, 848 F.2d 1560, 1570 (Fed. Cir. 1988) ("A statement in the patent that something is in the prior art is binding on the applicant and patentee for determinations of anticipation and obviousness."); and 37 C.F.R.

§1.104(c)(3) ("In rejecting claims the examiner may rely upon admissions by the applicant, or the patent owner in a reexamination proceeding, as to any matter affecting patentability").

3. High level of skill in pertinent art at filing date suggests obviousness

"A determination of obviousness requires a factual finding of the level of ordinary skill in the art" because "fewer inventions are obvious to a person with a lower level of skill than to one with a higher level of skill. A less sophisticated level of skill generally favors a determination of nonobviousness, and thus the patentee, while a higher level of skill favors the reverse." *Innovention Toys, LLC v. MGA Entm't, Inc.*, 637 F.3d 1314, 1323 (Fed. Cir. 2011). *Kinetic Concepts, Inc. v. Smith & Nephew, Inc.*, 688 F.3d 1342, 1366 (Fed. Cir. 2012) held "it is generally easier to establish obviousness under a higher level of ordinary skill in the art," such as the level described in Declaration (Exhibit 1002) at paragraphs 20-23.

- D. Specific identification of where each element of the claims are found in prior art patents or printed publications under 37 C.F.R. §42.104(b)(4)
 - 1. Claims 1-22 are anticipated under 35 U.S.C. §102(b) by SavoySoft (Exhibit 1009)

The Affidavit on page 1 of Exhibit 1009 constitutes legally sufficient evidence that the webpages attached as pages 3-15 of Exhibit 1009 were published at least as early as November 14, 1996. See, e.g., EMC *Corp. v. Personalweb Techs., LLC*, Case IPR2013-00084, Paper 64 at 45 (USPTO PTAB May 15, 2014),

citing *United States v. Bansal*, 663 F.3d 634, 667-68 (3d. Cir. 2011) ("concluding that the screenshot images from the Internet Archive were authenticated sufficiently under Federal Rule of Evidence 901(b)(1) by a witness with personal knowledge of its contents, verifying that the screenshot the party seeks to admit are true and accurate copies of Internet Archive's records"). As further discussed in Declaration (Exhibit 1002) at paragraphs 38-61, SavoySoft (Exhibit 1009) discloses the limitations of claims 1-22 as follows:

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
computer for controlling a plurality of lighting loads, the computer comprising: a display; and memory	See page 4 ("CyberHouse is a home automation and facility management application for Windows that controls electrical equipment, appliances, lighting through a two-way X10 interface, providing security, automation, monitoring, management and analysis of one or more facilities In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraph 38.
executed, causing the computer to show a	Pages 4 and 8 each show a pictograph (light icon) and a control panel (slider). See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 39.
	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)	
	paragraph 39.	
lighting load state to be	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 39.	
causing the computer to generate a lighting control request when a	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 7 ("CyberHouse's server application works in conjunction with the Viewer, accepting instructions from you via the Viewer's graphical user interface.") See also Declaration (Exhibit 1002) at paragraph 40.	
identifying a lighting load corresponding to the	See the figure on page 4 ("PaulsLight") and the figure on page 8 ("Light1," "Light2," and "Light3"). See also page 8 ("This example can be expanded for more lights and/or more scenes.") See also Declaration (Exhibit 1002) at paragraph 43.	
further identifying the lighting control state entered	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 43.	
	See page 4 ("CyberHouse can interconnect multiple facilities over networks and provide you with remote access when you're away True Client/Server architecture with the CyberHouse Manager running as a server (like the Print Manager) and the CyberHouse Viewer running as a client on any networked computer (including laptop over dialup phone line).") See also Declaration (Exhibit 1002) at paragraph 41.	
request is used for controlling the lighting load	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 8 ("The layout includes a top	

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
selected representation.	row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 42.
claim 1, further comprising means for connecting to a computer network, the instructions further instructing the	See page 4 ("CyberHouse can interconnect multiple facilities over networks and provide you with remote access when you're away True Client/Server architecture with the CyberHouse Manager running as a server (like the Print Manager) and the CyberHouse Viewer running as a client on any networked computer"). See also Declaration (Exhibit 1002) at paragraph 44.
claim 1, wherein	See page 4 ("CyberHouse is a home automation and facility management application for Windows that integrates the world of information processing with your environment. By this we mean the use of mainstream Windows applications with access to Internet sites designed to automate and manage your home or office.") and page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial into their home PCs via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.") See also Declaration (Exhibit 1002) at paragraphs 45-47.
and the HTML file causing the computer to download	
and the HTML file also causing the computer to	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraphs 39 and 48.

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
HTML lighting control form for allowing the lighting load state to be entered into the computer.	
claim 1, wherein the lighting control form	
claim 2, wherein the web browser program and the HTML file	
Claim 6: The computer of claim 1, wherein the instructions are included in a web browser program, an HTML file and an applet,	architecture enables remote and mobile users to dial into their home PCs via the Internet. Once

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
	residing on OLE2.0 client windows, permitting you to include any object supported by Microsoft's OLE2.0 servers, such as architectural drawing packages, Microsoft Draw and Paint, Audio and Video sequences, and many more.") See also Declaration (Exhibit 1002) at paragraphs 52-53.
the HTML file and the applet causing the computer	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraphs 39 and 54.
for allowing the lighting	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraphs 39 and 54.
claim 6, wherein the lighting control panel	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 49.
claim 6, wherein the web browser program, the HTML file and the applet cause the computer to generate the lighting control request including an identification of a lighting load and the lighting state entered into the computer.	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions Graphical layouts residing on OLE2.0 client windows, permitting you to include any object supported by Microsoft's OLE2.0 servers, such as architectural drawing packages, Microsoft Draw and Paint, Audio and Video sequences, and many more.") and page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraphs 43 and 54.
Claim 9: The computer of	See page 4 ("Users control their facility through

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
claim 1, wherein the pictograph includes a clickable floor plan.	graphical Layout windows In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraph 55.
claim 9, wherein the pictograph is link,able	See page 4 ("Multiple Layouts can display multiple facilities or different views of the same facility.") and page 5 ("Multiple Document Interface (MDI) permitting the concurrent viewing of multiple facilities, or multiple views of the same facility.") See also Declaration (Exhibit 1002) at paragraph 56.
claim 1, further comprising an interface module adapted to be coupled to a power/communications bus; and wherein the instructions further instruct the computer to translate the lighting control requests into digital	See page 4 ("CyberHouse controls electrical equipment, appliances, lighting through a two-way X10 interface, providing security, automation, monitoring, management and analysis of one or more facilities.") and page 6 ("X-10 devices that communicate over 110 volt power lines CyberHouse interfaces to [t]he X-10 system through a proprietary two-way interface adapter connected to the PC parallel printer port.") See also Declaration (Exhibit 1002) at paragraphs 57-58.
indicating the identified lighting load and the lighting	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 59.
method of controlling a plurality of lighting loads using a computer connectable to a computer	See page 4 ("CyberHouse controls electrical equipment, appliances, lighting through a two-way X10 interface, providing security, automation, monitoring, management and analysis of one or more facilities True Client/Server architecture with the CyberHouse Manager running as a server (like the Print Manager) and the CyberHouse Viewer

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
	running as a client on any networked computer"). See also Declaration (Exhibit 1002) at paragraph 38.
including a plurality of selectable representations of	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraph 39.
the computer, the control panel allowing a lighting	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 39.
request when a lighting load state is entered into the computer and a selectable representation on the	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 7 ("CyberHouse's server application works in conjunction with the Viewer, accepting instructions from you via the Viewer's graphical user interface.") See also Declaration (Exhibit 1002) at paragraph 40.
	See page 4 ("CyberHouse can interconnect multiple facilities over networks and provide you with remote access when you're away True Client/Server architecture with the CyberHouse Manager running as a server (like the Print Manager) and the CyberHouse Viewer running as a client on any networked computer (including laptop over dialup phone line).") See also Declaration (Exhibit 1002) at paragraph 41.
request is used for controlling the lighting load	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 7 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.")

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
	See also Declaration (Exhibit 1002) at paragraph 42.
Claim 13: The method of claim 12, wherein the lighting control requests are sent to the network using a TCP/IP protocol.	
claim 12, wherein the lighting control requests include coordinates of the	See page 4 ("With CyberHouse, you can control indoor and outdoor lighting according to calculations (derived from your Latitude / Longitude coordinates) and much more.") See also Declaration (Exhibit 1002) at paragraph 50.
claim 12, wherein the lighting control requests include a lighting load	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 43.
article of manufacture for a computer, the article	

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
display a pictograph and a control panel,	The figures on page 4 and page 8 each show a pictograph (light icon) and a control panel (slider). See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 39.
	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraph 39.
_	See page 8 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 39.
causing the computer to generate a lighting control request when a	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 7 ("CyberHouse's server application works in conjunction with the Viewer, accepting instructions from you via the Viewer's graphical user interface.") See also Declaration (Exhibit 1002) at paragraph 40.
identifying a lighting load	See the figure on page 4 ("PaulsLight") and the figure on page 7 ("Light1," "Light2," and "Light3"). See also page 7 ("This example can be expanded for more lights and/or more scenes.") See also Declaration (Exhibit 1002) at paragraph 43.
further identifying the	See page 7 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 43.

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
and send the lighting control request to a computer network,	See page 4 ("CyberHouse can interconnect multiple facilities over networks and provide you with remote access when you're away True Client/Server architecture with the CyberHouse Manager running as a server (like the Print Manager) and the CyberHouse Viewer running as a client on any networked computer (including laptop over dialup phone line).") See also Declaration (Exhibit 1002) at paragraph 41.
request is used for controlling the lighting load	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") and page 7 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraph 42.
claim 16, wherein the instructions are included	See page 4 ("CyberHouse is a home automation and facility management application for Windows that integrates the world of information processing with your environment. By this we mean the use of mainstream Windows applications with access to Internet sites designed to automate and manage your home or office.") and page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial into their home PCs via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.") See also Declaration (Exhibit 1002) at paragraphs 45-47.
and the HTML file causing the computer to download and display an image map	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraphs 39 and 48.
the web browser program	See page 7 ("The layout includes a top row of lights

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
causing the computer to	
claim 17, wherein the web browser program and the HTML file	
claim 16, wherein the instructions are included in a web browser program,	See page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial into their home PCs via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.") and page 4 ("CyberHouse is a home automation and facility management application for Windows that integrates the world of information processing with your environment. By this we mean the use of mainstream Windows applications with access to Internet sites designed to automate and manage your home or office Graphical layouts residing on OLE2.0 client windows, permitting you to include any object supported by Microsoft's OLE2.0 servers, such as architectural drawing packages, Microsoft Draw and Paint, Audio and Video sequences, and many more.") See also

'993 patent (Exhibit 1001)	SavoySoft (Exhibit 1009)
	Declaration (Exhibit 1002) at paragraphs 52-53.
applet causing the computer	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraphs 39 and 54.
for allowing the lighting	See page 7 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraphs 39 and 54.
claim 19, wherein the web browser program, the HTML file and the applet cause the computer to generate the lighting control request including an identification of a lighting load and the lighting state entered into the computer	See page 4 ("In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions Graphical layouts residing on OLE2.0 client windows, permitting you to include any object supported by Microsoft's OLE2.0 servers, such as architectural drawing packages, Microsoft Draw and Paint, Audio and Video sequences, and many more.") and page 7 ("The layout includes a top row of lights (three) with slider styles The slider controls permit manual adjustment of the lights.") See also Declaration (Exhibit 1002) at paragraphs 40, 43 and 54.
claim 16, wherein	See page 4 ("Users control their facility through graphical Layout windows In the Layout shown here, users view animated icons to show activity and can control the environment through simple point and click mouse actions.") See also Declaration (Exhibit 1002) at paragraph 55.
claim 21, wherein	See page 4 ("Multiple Layouts can display multiple facilities or different views of the same facility.") and page 5 ("Multiple Document Interface (MDI) permitting the concurrent viewing of multiple facilities, or multiple views of the same facility.") See also Declaration (Exhibit 1002) at paragraph 56.

2. Claims 1-22 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009)

To the extent that SavoySoft (Exhibit 1009) is not considered to be a unitary anticipatory reference, Petitioner submits that it would have been obvious to have combined its respective teachings directed to a functionality associated with a single software product, CyberHouse Release 2. Moreover, to the extent that SavoySoft (Exhibit 1009) fails to fully disclose any limitation of claims 1-22, any such differences would have been sufficiently minor that the claims as a whole would nonetheless have been obvious to one skilled in the art at the time of the filing of the '993 patent. See also Declaration (Exhibit 1002) at paragraph 37.

3. Claims 1-22 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009) and House (Exhibit 1011)

Claims 1, 8, 15, 16 and 20 include limitations wherein a lighting control request identifies a lighting load and a lighting control state. As discussed in the chart claim above and in Declaration (Exhibit 1002) at paragraph 40, SavoySoft (Exhibit 1009) is believed to teach and/or suggest these limitations. Nonetheless, any possible deficiency of SavoySoft with respect to these limitations may be remedied by combining its teachings with House (Exhibit 1011) in the manner discussed in Declaration (Exhibit 1002) at paragraphs 62-65. House explicitly discloses the aforementioned limitations at pages 66-67:

In the following examples, the first 11 bytes of each packet are the same with the exception of byte 11, where the invoke ID field is incremented. The first 11 bytes (hex) are: 0F 01 00 05 00 01 00 02 00 50 E0. As you recall, the first byte is the control byte and the next four bytes are the destination-address information in right-to-left order, followed by the source address, also in right-to-left order. The next two bytes are the NPDU and APDU headers. . . . The on command uses the SetValue method to send a value of 37h to the feature-select IV. This sets the current value to 100 by the definition of featureselect. The bytes (hex) then are: 21 02 45 66 F5 37. The 21 is the ID of the lighting context, 02 is the object number of the analog control, 45 is the SetValue method, 66 is the feature-select IV (i.e., ASCII "f"), F5 is a delimiter, and 37 is an ASCII "7". The complete packet is: 0F 01 00 05 00 01 00 02 00 50 E8 21 02 45 66 F5 37. . . . To dim the light, we set the current_value IV to the dim level desired. In this example, we'll use 50%. With a packet of 21 02 45 43 FS 35 30, the 21 is the ID of the lighting context, 02 is the object number of the analog control. 45 is the SetValue method, 43 is the current-value IV (ASCII "C"), F5 is a delimiter, and 35 30 is ASCII for "5" and "0" or 50%. The complete packet is: 0F 01 00 01 00 14 00 15 00 50 EA 21 02 45 43 F5 35 30.

Accordingly, the above-quoted portion of House discloses a lighting control request ("packet") which identifies a lighting load ("destination-address information") and a lighting control state ("the dim level desired"). The combination of SavoySoft and House would be obvious as SavoySoft suggests that

House's techniques would be beneficially incorporated therein for controlling CEBus light switches. Compare SavoySoft (Exhibit 1009) at page 3 ("CyberHouse is a home automation and facility management system for your home/office, providing support for a large and growing collection of devices, including CEBus Dimmer switch") and House (Exhibit 1011) at page 61 ("In this article, I'll introduce you to packet construction and show you how to create CAL messages that control a CEBus light switch.")

4. Claims 6-8, 19 and 20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009) and Corcoran96 (Exhibit 1012)

As discussed in the claim chart above and in Declaration (Exhibit 1002) at paragraph 53, it is believed that SavoySoft (Exhibit 1009) teaches and/or suggests the limitations of claims 6 and 19 directed to an applet when that term is given its broadest reasonable construction. Nonetheless, any potential deficiency of SavoySoft with respect to these limitations may be remedied by combining its teachings with Corcoran96 (Exhibit 1012) as discussed in Declaration at paragraphs 66-68. The proposed combination would have been obvious because SavoySoft suggests the desirability of providing web access to CEBus devices, and Corcoran96 teaches that the use of Java applets for this purpose is advantageous.

Compare SavoySoft (Exhibit 1009) at page 3 ("CyberHouse is a home automation and facility management system for your home/office, providing you

with security, automation, monitoring and management of a large and growing collection of devices, including CEBus Dimmer switch"); page 9 ("A variety of communication techniques can be used together to build your HouseHold Web. These include . . . CEBus"); and page 10 ("CyberHouse's clientserver architecture enables remote and mobile users to dial into their home PCs . . . via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.") with Corcoran96 (Exhibit 1012) at page 236, left column ("Several methods of providing access to CEBus networks using the World Wide Web are described. Details of a working demonstration system are given. The system software incorporates CGI-Bin scripts and Java applets to support remote access to CEBus networks."); page 237, left column ("Java applets are executable code modules. These modules can be exported to a remote host in the same way that Hypertext documents are presently exported to a WWW browser. If the client-end browser incorporates a Virtual Java Machine (VJM) it recognizes and executes the applet."); and page 237, right column ("In our demonstration application Java applets provide a method of starting mini 'daemons' on the remote client. The applets then register and synchronise with the server-end software. This provides much richer application functionality and facilitates more sophisticated network link management and access security. . . . In this paper we have demonstrated the practical integration of a CEBus network with the WWW. This integration provides remote access to a new generation of consumer electronics products.")

5. Claims 6-8, 19 and 20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), House (Exhibit 1011) and Corcoran96 (Exhibit 1012)

It would have been obvious to combine SavoySoft (Exhibit 1009) with both House (Exhibit 1011) and Corcoran96 (Exhibit 1012) to remedy the respective deficiencies discussed above with reference to grounds 3 and 4. The combination of these three references would have obvious for at least the reasons discussed above with regard to grounds 3 and 4, noting that each of the references is directed to remote control of CEBus devices. See also Declaration (Exhibit 1002) at paragraph 69.

6. Claims 3-5, 14, 17 and 18 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), Corcoran96 (Exhibit 1012), and Fleishman (Exhibit 1013)

Claims 3 and 17 include limitations wherein selectable representations are included in an image map, and claims 5, 14 and 18 specify that the lighting control request includes coordinates of the selected representation. To the extent that SavoySoft (Exhibit 1009) alone fails to teach or suggest these limitations, such deficiency may be remedied by combining its teachings with those of Corcoran96 (Exhibit 1012) and Fleishman (Exhibit 1013) as discussed in Declaration (Exhibit 1002) at paragraphs 70-74.

SavoySoft suggests the desirability of providing remote access to CEBus devices. See SavoySoft (Exhibit 1009) at page 3 ("CyberHouse is a home automation and facility management system for your home/office, providing you with security, automation, monitoring and management of a large and growing collection of devices, including CEBus Dimmer switch"); page 9 ("A variety of communication techniques can be used together to build your HouseHold Web. These include . . . CEBus"); and page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial into their home PCs . . . via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.")

Corcoran96 (Exhibit 1012) suggests that one solution for providing remote access to CEBus devices involves CGI scripts. See Corcoran96 at page 236, left column ("Several methods of providing access to CEBus networks using the World Wide Web are described. Details of a working demonstration system are given. The system software incorporates CGI-Bin scripts . . . to support remote access to CEBus networks.") and page 237, left column ("The Common Gateway Interface (CGI) is a standard for interfacing external applications with a HTTP server. It defines a mechanism to allow a WWW client to transmit input data to an executable program which resides on the server. This executable generates a dynamic document from the input data which is returned to the client. CGI was

designed as an enhancement for HTTP servers to allow dynamic documents to be generated in response to user input.")

Fleishman (Exhibit 1013) teaches that CGI scripts are typically used to implement image maps, and the advantages associated with their use. See Fleishman at page 1 ("One of the things that mystifies newcomers to the Web is how to set up an image so that when you click on something in it, you're taken to a specific location on the Web. The answer: image mapping. Image maps allow a user to click on an image, have that click translated into a set of (x,y) coordinates in pixels relative to the image, and then have those coordinates translated into a location or resource on the Internet. The process only *seems* mysterious.") and page 3 ("These coordinates are transmitted to a Common Gateway Interface-enabled program, which interprets them and maps these coordinates against shapes you've defined and assigned to specific Internet resources, such as Web pages.")

Fleishman specifically teaches arrangements wherein an image map includes selectable representations, and that selecting one of the representations shown on the image map will cause transmission of a request including the coordinates of the selected representation on the image map in the manner recited in claims 3, 5, 14, 17 and 18. Thus, to the extent that SavoySoft alone fails to teach or suggest the limitations of these claims, such deficiency is remedied by Fleishman, which would be obvious to combine with SavoySoft in view of Corcoran96.

7. Claims 3-5, 14, 17 and 18 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), House (Exhibit 1011), Corcoran96 (Exhibit 1012), and Fleishman (Exhibit 1013)

It would have been obvious to combine SavoySoft (Exhibit 1009) with House (Exhibit 1011), Corcoran96 (Exhibit 1012) and Fleishman (Exhibit 1013) to remedy the respective deficiencies discussed above with reference to grounds 3 and 6. The combination of these references would have obvious for the reasons discussed with reference to grounds 3 and 6. See also Declaration at paragraph 75.

8. Claims 3-8, 14 and 17-20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009) and REC-html32 (Exhibit 1014)

As discussed in the claim chart above and Declaration (Exhibit 1002) at paragraphs 48-50, 56 and 76, it is believed that SavoySoft (Exhibit 1009), either alone or in view of the common knowledge of one skilled in the art, teaches and/or suggests at least the limitations of claims 3, 6, 14, 17 and 19 directed to the use of a web browser program and an HTML file. As discussed in Declaration (Exhibit 1002) at paragraphs 77-86, to the extent that SavoySoft (Exhibit 1009) alone fails to teach and/or suggest the further limitations of claims 3-5, 14, 17 and 18 directed to the use of an image map and of claims 6-8, 14, 19 and 20 directed to the use of an applet, such deficiencies are remedied by combining the relevant teachings of SavoySoft heretofore identified with the teachings of REC-html32 (Exhibit 1014) identified in the following claim chart:

'993 patent (Exhibit 1001)	REC-html32 (Exhibit 1014)
Claim 3: The computer of claim 1, wherein	As discussed above, the prior art teaches and/or suggests the limitations of independent claim 1.
	See page 1 ("The HyperText Markup Language (HTML) is a simple markup language used to create hypertext documents that are portable from one platform to another This specification defines HTML version 3.2. HTML 3.2 aims to capture recommended practice as of early '96 and as such to be used as a replacement for HTML 2.0") and page 2 ("HTML 3.2 is W3C's specification for HTML, developed in early '96 together with vendors including IBM, Microsoft, Netscape Communications Corporation, Novell, SoftQuad, Spyglass, and Sun Microsystems. HTML 3.2 adds widely deployed features while providing full backwards compatibility with the existing standard HTML 2.0.") See also Declaration (Exhibit 1002) at paragraph 78.
and the HTML file causing the computer to download and display a pictograph- based image map including	See page 27 ("ismap use server image map") and page 28 ("When the IMG element is part of a hypertext link, and the user clicks on the image, the ISMAP attribute causes the location to be passed to the server.") See also Declaration (Exhibit 1002) at paragraph 79.
and the HTML file also causing the computer to download and display an HTML lighting control form for allowing the lighting	See page 10 ("FORM fill-out forms This element is used to define a fill-out form for processing by HTTP servers.") and page 16 ("This is used to define an HTML form, and you can have more than one form in the same document Forms can contain a wide range of HTML markup including several kinds of form fields such as single and multi-line text fields, radio button groups, checkboxes, and menus.") See also Declaration (Exhibit 1002) at paragraph 80.
Claim 4: The computer of	See page 16 ("This is used to define an HTML form,

pictograph

REC-html32 (Exhibit 1014) *'993 patent (Exhibit 1001)* claim 1, wherein and you can have more than one form in the same the lighting control form document. . . . Forms can contain a wide range of of HTML markup including several kinds of form includes plurality graphical display elements fields such as single and multi-line text fields, radio for entering the lighting load button groups, checkboxes, and menus.") See also Declaration (Exhibit 1002) at paragraph 81. states into the computer. Claim 5: The computer of See page 28 ("When the IMG element is part of a hypertext link, and the user clicks on the image, the claim 2, wherein the web browser program ISMAP attribute causes the location to be passed to HTML file the server. . . . The location clicked is passed to the and instructions cause the server as follows. The user agent derives a new URL the from the URL specified by the HREF attribute by computer to generate request appending '?' the x coordinate ',' and the y control lighting including coordinates of the coordinate of the location in pixels. The link is then selected representation and followed using the new URL. For instance, if the the lighting state entered into user clicked at the location x=10, y=27 then the a derived URL will be: '/cgibin/navbar.map?10,27'.") the computer when representation on the image | See also Declaration (Exhibit 1002) at paragraph 82. map is selected. Claim 6: The computer of See page 2 ("HTML 3.2 is W3C's specification for HTML, developed in early `96 together with vendors claim 1, wherein the instructions are included including IBM. Microsoft, Netscape in a web browser program, Communications Corporation, Novell, SoftQuad, Spyglass, and Sun Microsystems. HTML 3.2 adds an HTML file and an applet, widely deployed features such as . . . applets . . . while providing full backwards compatibility with the existing standard HTML 2.0.") and page 29 ("This element is supported by all Java enabled browsers. It allows you to embed a Java applet into HTML documents.") See also Declaration (Exhibit 1002) at paragraph 84. the web browser program, See page 30 ("These required attributes give the the HTML file and the initial width and height (in pixels) of the applet applet causing the computer display area, not counting any windows or dialogs

to download and display the that the applet brings up.") See also Declaration

(Exhibit 1002) at paragraph 85.

'993 patent (Exhibit 1001)	REC-html32 (Exhibit 1014)
for allowing the lighting	See page 30 ("These required attributes give the initial width and height (in pixels) of the applet display area, not counting any windows or dialogs that the applet brings up.") See also Declaration (Exhibit 1002) at paragraph 85.
claim 6, wherein the lighting control panel includes a plurality of	See page 30 ("These required attributes give the initial width and height (in pixels) of the applet display area, not counting any windows or dialogs that the applet brings up.") See also Declaration (Exhibit 1002) at paragraph 86.
claim 12, wherein the lighting control requests include coordinates of the	See page 28 ("When the IMG element is part of a hypertext link, and the user clicks on the image, the ISMAP attribute causes the location to be passed to the server The location clicked is passed to the server as follows. The user agent derives a new URL from the URL specified by the HREF attribute by appending '?' the x coordinate ',' and the y coordinate of the location in pixels. The link is then followed using the new URL. For instance, if the user clicked at the location x=10, y=27 then the derived URL will be: '/cgibin/navbar.map?10,27'.") See also Declaration (Exhibit 1002) at paragraph 82.
claim 16, wherein the instructions are included	See page 1 ("The HyperText Markup Language (HTML) is a simple markup language used to create hypertext documents that are portable from one platform to another This specification defines HTML version 3.2. HTML 3.2 aims to capture recommended practice as of early '96 and as such to be used as a replacement for HTML 2.0") and page 2 ("HTML 3.2 is W3C's specification for HTML, developed in early '96 together with vendors including IBM, Microsoft, Netscape Communications Corporation, Novell, SoftQuad, Spyglass, and Sun Microsystems. HTML 3.2 adds

'993 patent (Exhibit 1001)	REC-html32 (Exhibit 1014)
	widely deployed features while providing full backwards compatibility with the existing standard HTML 2.0.")
and the HTML file causing the computer to download and display an image map	See page 27 ("ismap use server image map") and page 28 ("When the IMG element is part of a hypertext link, and the user clicks on the image, the ISMAP attribute causes the location to be passed to the server.") See also Declaration (Exhibit 1002) at paragraph 79.
and the HTML file also causing the computer to download and display an HTML lighting control form for allowing the lighting	See page 10 ("FORM fill-out forms This element is used to define a fill-out form for processing by HTTP servers.") and page 16 ("This is used to define an HTML form, and you can have more than one form in the same document Forms can contain a wide range of HTML markup including several kinds of form fields such as single and multi-line text fields, radio button groups, checkboxes, and menus.") See also Declaration (Exhibit 1002) at paragraph 80.
claim 17, wherein the web browser program and the HTML file instructions cause the computer to generate the lighting control request including coordinates of the selected representation and the lighting state entered into the computer when a	See page 28 ("When the IMG element is part of a hypertext link, and the user clicks on the image, the ISMAP attribute causes the location to be passed to the server The location clicked is passed to the server as follows. The user agent derives a new URL from the URL specified by the HREF attribute by appending '?' the x coordinate ',' and the y coordinate of the location in pixels. The link is then followed using the new URL. For instance, if the user clicked at the location x=10, y=27 then the derived URL will be: '/cgibin/navbar.map?10,27'.") See also Declaration (Exhibit 1002) at paragraph 82.
claim 16, wherein the instructions are included	See page 2 ("HTML 3.2 is W3C's specification for HTML, developed in early `96 together with vendors including IBM, Microsoft, Netscape Communications Corporation, Novell, SoftQuad,

'993 patent (Exhibit 1001)	REC-html32 (Exhibit 1014)
an HTML file and an applet, the web browser program,	Spyglass, and Sun Microsystems. HTML 3.2 adds widely deployed features such as applets while providing full backwards compatibility with the existing standard HTML 2.0.") and page 29 ("This element is supported by all Java enabled browsers. It allows you to embed a Java applet into HTML documents.") See also Declaration (Exhibit 1002) at paragraph 84.
applet causing the computer	See page 30 ("These required attributes give the initial width and height (in pixels) of the applet display area, not counting any windows or dialogs that the applet brings up.") See also Declaration (Exhibit 1002) at paragraph 85.
for allowing the lighting	See page 30 ("These required attributes give the initial width and height (in pixels) of the applet display area, not counting any windows or dialogs that the applet brings up.") See also Declaration (Exhibit 1002) at paragraph 85.

9. Claims 3-8, 14 and 17-20 are obvious under 35 U.S.C. §103(a) over SavoySoft (Exhibit 1009), House (Exhibit 1011) and REC-html32 (Exhibit 1014)

It would have been obvious to combine SavoySoft (Exhibit 1009) with House (Exhibit 1011) and REC-html32 (Exhibit 1014) to remedy the respective deficiencies discussed above with reference to grounds 3 and 8. The combination of these references would have obvious for the reasons discussed with reference to grounds 3 and 8. See also Declaration (Exhibit 1002) at paragraph 87.

10. Claims 1, 2, 9-12, 15, 16, 21 and 22 are anticipated under 35 U.S.C. §102(b) by Wilson (Exhibit 1015)

As discussed in Declaration (Exhibit 1002) at paragraphs 89-104, Wilson (Exhibit 1015) discloses claims 1, 2, 9-12, 15, 16, 21 and 22 as follows:

'993 patent	Wilson (Exhibit 1015)
_	See column 24, lines 18-36 ("Now referring to FIG. 8A, a general block diagram of an alternative embodiment of a peripheral data acquisition, monitor, and adaptive control system 400 is shown. The system 400, in this embodiment, utilizes the X-10 power-line carrier code format transmitted over an AC power line of a home to monitor and control various household appliances, such as a table lamp, coffee maker, dishwasher, etc The host PC 12 is coupled to the I/O Bridge device 14, the keyboard 16, the mouse 18, and the modem 20, via the various interconnect cables described above. Since a MACINTOSH II computer is used in this embodiment, the mouse 18 is shown connected to the keyboard 16 instead of the PC 12.") See also Declaration (Exhibit 1002) at paragraph 89.
comprising: a display; and memory encoded	See column 8, lines 38-51 ("The PC shown in FIG. 1 is a MACINTOSH PLUS computer having a display screen 22 with a cursor indicator controlled by a mouse 18, and a floppy disk drive 24 adapted for 3½ inch floppy disks.")
executed, causing the computer to show a pictograph and a	See column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 90.
	See column 30, lines 9-25 ("Once the user chooses a particular location or room of the house, the next screen

'993 patent	Wilson (Exhibit 1015)
representations of the lighting loads,	display would illustrate the chosen location or room, and present a representative icon showing the exact location and function of each electronic device, similar to FIG. 4B. For example, if the living room was selected, the screen display would show an icon for a remotely-controlled television, a VCR, a lamp, an overhead fan, etc., all in the same room. Once the user moves the mouse pointer over the various electronically-controlled devices, the devices are highlighted and a text description (if not already present) would appear on the screen. Once a particular piece of electronically-controlled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen.") See also Declaration (Exhibit 1002) at paragraph 91.
allowing a lighting	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, lines 21-44 ("Once a particular piece of electronically-controlled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen. Continuing with the example of the VCR, a soft control panel illustrating the appropriate controls and displays would be shown, similar to that shown in FIG. 4C. The user would then be able to operate the controls using the mouse pointer on the simulated VCR controls, and would be able to monitor the device using the simulated VCR readouts duplicated on the screen. This feature is particularly useful if the soft control panel shown in the third level of the screen displays simulates an actual control panel of the device being controlled. Hence, the peripheral data

'993 patent	Wilson (Exhibit 1015)
	acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 92.
causing the computer to generate a lighting control request when a	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 93.
request identifying a lighting load	See column 28, lines 11-15 ("Note that the master bedroom lamp would normally be connected to an X-10 lamp module such as module 414 of FIG. 8A. The lamp would then be assigned an X-10 output channel (see FIG. 3I) in order to be controlled by the PC.") and column 29, lines 31-44 ("In Step 601 of FIG. 10A, the application software program, such as a dedicated INIT, calls for a particular remote X-10 module to be turned on. As discussed above, the INITs are the driver programs in the preferred embodiment. However, this may not be the case for other types of PC's. In Step 602, the application software program creates the associated I/O Bridge

'993 patent	Wilson (Exhibit 1015)
	command to select the specified X-10 module. During this step, information is sent to the I/O Bridge device 14 to generate the X-10 transmission select code. In the preferred embodiment, four data bytes are used: an X-10 identifier byte, the X-10 house code, the X-10 number code, and an I/O Bridge control byte.") See also Declaration (Exhibit 1002) at paragraph 94.
request further identifying the lighting	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user."); and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 95.
1 = =	See column 6, line 55, to column 7, line 10 ("In accordance with another aspect of the present invention, the system further provides the ability to interface the PC, via the keyboard port, with a wireless or AC power-line transmission media, such as an infrared (I/R), radio frequency (RF), or AC power line carrier (X-10) transmission link The interface device also executes instructions from the PC to provide control signals, modulates the control signals onto the wireless or AC power-line transmission media, and receives, demodulates, and outputs the signals to the electrically-controlled device.") and column 29, line 58, to column 30, line 2, with reference to FIG. 10A ("In Step 606, the application software program creates the I/O Bridge

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	command needed to activate the selected module(s). Hence, another four bytes of data are sent to the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command. Again, the I/O Bridge command is sent to the I/O Bridge via the keyboard interface in Step 607. In Step 608, the I/O Bridge device synthesizes the proper bit sequence to transmit the function code to the previously-selected X-10 module. Next, in Step 609, the bit sequence is set to the power-line carrier modulator of the interface module 404, again synchronized with the AC line frequency.") See also Declaration (Exhibit 1002) at paragraph 96.
control request is used for controlling the lighting load corresponding to the	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.")
computer of claim 1,	

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	available from X-10 (USA) Inc. as Model No. TW523. Since it is a two-way interface module, it can transmit and receive X-10 codes via the AC power line 402.") See also Declaration (Exhibit 1002) at paragraph 97.
instructing the computer to send the lighting control request	See column 6, line 55, to column 7, line 10 ("The interface device also executes instructions from the PC to provide control signals, modulates the control signals onto the wireless or AC power-line transmission media, and receives, demodulates, and outputs the signals to the electrically-controlled device.") and column 29, line 58, to column 30, line 2, with reference to FIG. 10A ("In Step 606, the application software program creates the I/O Bridge command needed to activate the selected module(s). Hence, another four bytes of data are sent to the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command. Again, the I/O Bridge command is sent to the I/O Bridge via the keyboard interface in Step 607. In Step 608, the I/O Bridge device synthesizes the proper bit sequence to transmit the function code to the previously-selected X-10 module. Next, in Step 609, the bit sequence is set to the power-line carrier modulator of the interface module 404, again synchronized with the AC line frequency.") See also Declaration (Exhibit 1002) at paragraph 96.
Claim 9: The computer of claim 1, wherein the pictograph includes a clickable floor plan.	See column 30, lines 9-25 ("Once the user chooses a particular location or room of the house, the next screen display would illustrate the chosen location or room, and present a representative icon showing the exact location and function of each electronic device, similar to FIG. 4B. For example, if the living room was selected, the screen display would show an icon for a remotely-controlled television, a VCR, a lamp, an overhead fan, etc., all in the same room. Once the user moves the mouse pointer over the various electronically-controlled devices, the devices are highlighted and a text description (if not already present) would appear on the screen. Once a particular piece of electronically-controlled equipment is selected by

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	the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen.") See also Declaration (Exhibit 1002) at paragraph 98.
computer of claim 9, wherein the pictograph is	See column 30, line 52, to column 31, line 13 ("The automated home system of FIG. 8A is particularly well adapted to operate in accordance with the software control program screen display sequence described previously in FIGS. 4A-4D, wherein a sequence of pictorial location displays, such as floorplans, are presented to orient the user as to the specific location of the device being controlled and/or monitored. More specifically, FIG. 4A, which illustrates a pictorial representation of the overall physical layout of a particular facility, could readily be modified to present a bird's eye view of the user's home, including any outdoor devices that are electrically monitored and controlled by the system. Such a graphical overview could be made by scanning a copy of the survey of the property, or simply by drawing a representative floorplan of the user's home using a painting or drawing application program. This screen display of the 'big picture' would illustrate the approximate physical location of groups of devices being monitored and controlled. The display at this level would probably not include a representative icon for every device in each room. Instead, the user would be directed to move the mouse pointer over the various rooms or locations, select a particular location, and proceed with the next level of screen displays. Once the user chooses a particular location or room of the house, the next screen display would illustrate the chosen location or room, and present a representative icon showing the exact location and function of each electronic device, similar to FIG. 4B.") See also Declaration (Exhibit 1002) at paragraph 99.
	See column 25, lines 27-34 ("Again, referring to FIG. 8A, it can be seen that a number of X-10 modules are

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adapted to be coupled	connected to the AC power line 402 via AC outlets 408. An X-10 lamp module 414 (such as X-10 model no. LM511), an X-10 wall switch module (such as X-10 model no. WS711), or an X-10 wall receptacle module (such as model no. SR227) can be used to control a table lamp 416.") and column 28, lines 11-15 ("Note that the master bedroom lamp would normally be connected to an X-10 lamp module such as module 414 of FIG. 8A. The lamp would then be assigned an X-10 output channel (see FIG. 3I) in order to be controlled by the PC.") See also Declaration (Exhibit 1002) at paragraphs 100-101.
instructions further instruct the computer to translate the lighting control requests into digital commands for the interface module, the digital commands indicating the identified lighting load and the lighting state	See column 29, line 22, to column 30, line 2 ("FIG. 10A illustrates the system operation for an X-10 code output generated by the MASTER CONTROL program in the PC In Step 601 of FIG. 10A, the application software program, such as a dedicated INIT, calls for a particular remote X-10 module to be turned on. As discussed above, the INITs are the driver programs in the preferred embodiment. However, this may not be the case for other types of PC's. In Step 602, the application software program creates the associated I/O Bridge command to select the specified X-10 module. During this step, information is sent to the I/O Bridge device 14 to generate the X-10 transmission select code. In the preferred embodiment, four data bytes are used: an X-10 identifier byte, the X-10 house code, the X-10 number code, and an I/O Bridge control byte. In Step 603, the I/O Bridge command is sent from the host PC 12 to the I/O Bridge device 14 via the keyboard port. Next, in Step 604, the I/O Bridge itself synthesizes the proper bit sequence to transmit the X-10 transmission select code for the X-10 module. In other words, the I/O Bridge generates the proper X-10 code based upon the I/O Bridge command information. In Step 605, the X-10 code bit sequence is sent through the I/O adapter circuitry 406 to the power-line carrier modulator of the interface module 404 via the PA5 output. As discussed above, the bit sequence must be

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	synchronized with the AC line frequency. This is accomplished using the PA4 tachometer input line. In Step 606, the application software program creates the I/O Bridge command needed to activate the selected module(s). Hence, another four bytes of data are sent to the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command. Again, the I/O Bridge command is sent to the I/O Bridge via the keyboard interface in Step 607. In Step 608, the I/O Bridge device synthesizes the proper bit sequence to transmit the function code to the previously-selected X-10 module. Next, in Step 609, the bit sequence is set to the power-line carrier modulator of the interface module 404, again synchronized with the AC line frequency.") See also Declaration (Exhibit 1002) at paragraphs 100 and 102-103.
12: A method of controlling a plurality of lighting loads using a computer connectable to a	See column 24, lines 18-36 ("Now referring to FIG. 8A, a general block diagram of an alternative embodiment of a peripheral data acquisition, monitor, and adaptive control system 400 is shown. The system 400, in this embodiment, utilizes the X-10 power-line carrier code format transmitted over an AC power line of a home to monitor and control various household appliances, such as a table lamp, coffee maker, dishwasher, etc The host PC 12 is coupled to the I/O Bridge device 14, the keyboard 16, the mouse 18, and the modem 20, via the various interconnect cables described above. Since a MACINTOSH II computer is used in this embodiment, the mouse 18 is shown connected to the keyboard 16 instead of the PC 12.") See also column 6, line 55, to column 7, line 10 ("In accordance with another aspect of the present invention, the system further provides the ability to interface the PC, via the keyboard port, with a wireless or AC power-line transmission media, such as an infrared (I/R), radio frequency (RF), or AC power line carrier (X-10) transmission link.") See also Declaration (Exhibit 1002) at paragraphs 89 and 96.

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including a plurality of selectable computer;

displaying a pictograph | See column 30, lines 9-25 ("Once the user chooses a particular location or room of the house, the next screen display would illustrate the chosen location or room, and representations of the present a representative icon showing the exact location lighting loads on the and function of each electronic device, similar to FIG. 4B. For example, if the living room was selected, the screen display would show an icon for a remotely-controlled television, a VCR, a lamp, an overhead fan, etc., all in the same room. Once the user moves the mouse pointer over the various electronically-controlled devices, the devices are highlighted and a text description (if not already present) would appear on the screen. Once a particular piece of electronically-controlled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen.") See also Declaration (Exhibit paragraphs 90 and 91.

displaying panel on the computer, the control a into the computer;

a control See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input panel window is used to monitor the status of the master lighting bedroom lamp. The command button 506 is used to load state to be entered indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, lines 21-44 ("Once a particular piece of electronicallycontrolled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen. Continuing with the example of the VCR, a soft control panel illustrating the appropriate controls and displays would be shown, similar to that shown in FIG. 4C. The user would then be able to operate the controls using the mouse pointer on the simulated VCR controls, and would be able to monitor the device using the simulated VCR readouts duplicated on the screen. This feature is particularly useful if the soft control panel shown in the third level of the

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	screen displays simulates an actual control panel of the device being controlled. Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraphs 90 and 92.
control request when a lighting load state is entered into the computer and a selectable representation on the	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 93.
sending the lighting control request to the computer network	See column 6, line 55, to column 7, line 10 ("The interface device also executes instructions from the PC to provide control signals, modulates the control signals onto the wireless or AC power-line transmission media, and receives, demodulates, and outputs the signals to the electrically-controlled device.") and column 29, line 58, to column 30, line 2, with reference to FIG. 10A ("In Step 606, the application software program creates the I/O Bridge command needed to activate the selected module(s). Hence, another four bytes of data are sent to

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	the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command. Again, the I/O Bridge command is sent to the I/O Bridge via the keyboard interface in Step 607. In Step 608, the I/O Bridge device synthesizes the proper bit sequence to transmit the function code to the previously-selected X-10 module. Next, in Step 609, the bit sequence is set to the power-line carrier modulator of the interface module 404, again synchronized with the AC line frequency.") See also Declaration (Exhibit 1002) at paragraph 96.
control request is used for controlling the lighting load corresponding to the	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.")
of claim 12, wherein the lighting control requests include a lighting load identifier	See column 29, line 22, to column 30, line 2 ("In Step 601 of FIG. 10A, the application software program, such as a dedicated INIT, calls for a particular remote X-10 module to be turned on. As discussed above, the INITs are the driver programs in the preferred embodiment. However, this may not be the case for other types of PC's. In Step 602, the application software program creates the associated I/O Bridge command to select the specified X-10 module. During this step, information is sent to the I/O Bridge device 14 to generate the X-10 transmission select code. In the preferred embodiment, four data bytes are used: an X-10 identifier byte, the X-10 house code, the X-

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	10 number code, and an I/O Bridge control byte In Step 606, the application software program creates the I/O Bridge command needed to activate the selected module(s). Hence, another four bytes of data are sent to the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command.") See also Declaration (Exhibit 1002) at paragraphs 94 and 95.
of manufacture for a computer, the article comprising: computer memory; and a plurality of executable	See column 29, lines 20-30 ("FIGS. 10A and 10B are flowcharts illustrating the operation of the peripheral data acquisition, monitor, and adaptive control system using X-10 modules. FIG. 10A illustrates the system operation for an X-10 code output generated by the MASTER CONTROL program in the PC Both of these Figures generally correspond to the system shown in FIG. 8A.")
display a pictograph and a control panel,	See column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 90.
including selectable	See column 30, lines 9-25 ("Once the user chooses a particular location or room of the house, the next screen display would illustrate the chosen location or room, and present a representative icon showing the exact location and function of each electronic device, similar to FIG. 4B. For example, if the living room was selected, the screen display would show an icon for a remotely-controlled

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	television, a VCR, a lamp, an overhead fan, etc., all in the same room. Once the user moves the mouse pointer over the various electronically-controlled devices, the devices are highlighted and a text description (if not already present) would appear on the screen. Once a particular piece of electronically-controlled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen.") See also Declaration (Exhibit 1002) at paragraph 91.
allowing a lighting	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, lines 21-44 ("Once a particular piece of electronically-controlled equipment is selected by the user, the program would move to the third level of screen displays to illustrate a pictorial view of the control panel of the specific device chosen in the previous screen. Continuing with the example of the VCR, a soft control panel illustrating the appropriate controls and displays would be shown, similar to that shown in FIG. 4C. The user would then be able to operate the controls using the mouse pointer on the simulated VCR controls, and would be able to monitor the device using the simulated VCR readouts duplicated on the screen. This feature is particularly useful if the soft control panel shown in the third level of the screen displays simulates an actual control panel of the device being controlled. Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the

'993 patent	Wilson (Exhibit 1015)
	group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 92.
causing the computer to generate a lighting control request when a representation on the	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 93.
request identifying a lighting load corresponding to the	See column 28, lines 11-15 ("Note that the master bedroom lamp would normally be connected to an X-10 lamp module such as module 414 of FIG. 8A. The lamp would then be assigned an X-10 output channel (see FIG. 3I) in order to be controlled by the PC.") and column 29, lines 31-44 ("In Step 601 of FIG. 10A, the application software program, such as a dedicated INIT, calls for a particular remote X-10 module to be turned on. As discussed above, the INITs are the driver programs in the preferred embodiment. However, this may not be the case for other types of PC's. In Step 602, the application software program creates the associated I/O Bridge command to select the specified X-10 module. During this step, information is sent to the I/O Bridge device 14 to generate the X-10 transmission select code. In the preferred embodiment, four data bytes are used: an X-10 identifier byte, the X-10 house code, the X-10 number

'993 patent	Wilson (Exhibit 1015)
	code, and an I/O Bridge control byte.") See also Declaration (Exhibit 1002) at paragraph 94.
request further identifying the lighting	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user."); and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.") See also Declaration (Exhibit 1002) at paragraph 95.
and send the lighting control request to a computer network,	See column 6, line 55, to column 7, line 10 ("In accordance with another aspect of the present invention, the system further provides the ability to interface the PC, via the keyboard port, with a wireless or AC power-line transmission media, such as an infrared (I/R), radio frequency (RF), or AC power line carrier (X-10) transmission link The interface device also executes instructions from the PC to provide control signals, modulates the control signals onto the wireless or AC power-line transmission media, and receives, demodulates, and outputs the signals to the electrically-controlled device.") and column 29, line 58, to column 30, line 2, with reference to FIG. 10A ("In Step 606, the application software program creates the I/O Bridge command needed to activate the selected module(s). Hence, another four bytes of data are sent to the I/O Bridge to provide the X-10 function code to be transmitted to the X-10 module, e.g., an 'on' command. Again, the I/O Bridge command is sent to the I/O Bridge via the

'993 patent	Wilson (Exhibit 1015)
	keyboard interface in Step 607. In Step 608, the I/O Bridge device synthesizes the proper bit sequence to transmit the function code to the previously-selected X-10 module. Next, in Step 609, the bit sequence is set to the power-line carrier modulator of the interface module 404, again synchronized with the AC line frequency.") See also Declaration (Exhibit 1002) at paragraph 96.
control request is used for controlling the lighting load corresponding to the	See column 27, line 65, to column 28, line 2, with reference to FIG. 9A ("In this example, the X-10 input window is used to monitor the status of the master bedroom lamp. The command button 506 is used to indicate whether an 'on', 'off', 'dim', or 'bright' command has been selected by the user.") and column 30, line 52, to column 31, line 44 ("Hence, the peripheral data acquisition, monitor, and adaptive control system of the present invention is very user-friendly when the sequence of screen displays first illustrates zones or physical locations of a number of devices, then illustrates the particular location and function of each device in the group, and then illustrates the soft control panel of the chosen device, wherein commands are input by the user to perform the desired control function.")
Claim 21: The article of claim 16, wherein the pictograph includes a clickable floor plan.	particular location or room of the house, the next screen

'993 patent	Wilson (Exhibit 1015)
	panel of the specific device chosen in the previous screen.") See also Declaration (Exhibit 1002) at paragraph 98.
Claim 22: The article of claim 21, wherein the pictograph is linkable to other clickable floor plans.	1 1

11. Claims 1, 2, 9-12, 15, 16, 21 and 22 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015)

To the extent that Wilson (Exhibit 1015) fails to fully disclose any limitation of claims 1, 2, 9-12, 15, 16, 21 and 22, any such differences would have been sufficiently minor that the claims as a whole would nonetheless have been obvious to one skilled in the art at the time of the filing of the '993 patent. See also Declaration (Exhibit 1002) at paragraph 88.

12. Claims 6-8, 13, 19 and 20 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015) and Corcoran96 (Exhibit 1012)

Corcoran96 (Exhibit 1012) is directed to CEBus powerline networks rather than X-10 powerline networks of the type discussed in the cited portions of Wilson (Exhibit 1015). However, SavoySoft (Exhibit 1009) evidences that one skilled in the art would have understood that X-10 devices and CEBus devices can both be coupled to a single lighting control system, and further teaches the desirability of providing web access to such a lighting control system. See SavoySoft (Exhibit 1009) at page 3 ("CyberHouse is a home automation and facility management system for your home/office, providing you with security, automation, monitoring and management of a large and growing collection of devices, including X-10 series of power line modules [and] CEBus Dimmer switch."); page 9 ("A variety of communication techniques can be used together to build your HouseHold Web. These include . . . X-10 [and] CEBus"); and page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial into their home PCs . . . via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.")

Corcoran96 (Exhibit 1012) teaches the desirability of arrangements of the types recited in claims 6-8, 19 and 20 (e.g., arrangements including web browser program, an HTML file and an applet) for providing the aforementioned remote access to a lighting control system. See Corcoran96 (Exhibit 1012) at page 236, left column ("Several methods of providing access to CEBus networks using the World Wide Web are described. Details of a working demonstration system are given. The system software incorporates CGI-Bin scripts and Java applets to support remote access to CEBus networks."); page 237, left column ("Java applets are executable code modules. These modules can be exported to a remote host in the same way that Hypertext documents are presently exported to a WWW browser. If the client-end browser incorporates a Virtual Java Machine (VJM) it recognizes and executes the applet."); and page 237, right column ("In our demonstration application Java applets provide a method of starting mini 'daemons' on the remote client. The applets then register and synchronise with the server-end software. This provides much richer application functionality and facilitates more sophisticated network link management and access security. . . . In this paper we have demonstrated the practical integration of a CEBus network with the WWW. This integration provides remote access to a new generation of consumer electronics products.") Moreover, as discussed in Declaration (Exhibit 1002) at paragraphs 108-109, Corcoran96 implicitly, inherently, and/or obviously teaches the use of TCP/IP as recited in claim 13. Accordingly, it would have been obvious for one skilled in the art to have combined Wilson and Corcoran96 to reach the limitations of claims 6-8, 13, 19 and 20. See also Declaration (Exhibit 1002) at paragraphs 105-109.

13. Claims 3-5, 14, 17 and 18 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015), Corcoran96 (Exhibit 1012), and Fleishman (Exhibit 1013)

Corcoran96 (Exhibit 1012) is directed to CEBus powerline networks rather than X-10 powerline networks of the type discussed in the cited portions of Wilson (Exhibit 1015). However, SavoySoft (Exhibit 1009) evidences that one skilled in the art would have understood that X-10 devices and CEBus devices can both be coupled to a single lighting control system, and further teaches the desirability of providing remote access to such a lighting control system. See SavoySoft (Exhibit 1009) at page 3 ("CyberHouse is a home automation and facility management system for your home/office, providing you with security, automation, monitoring and management of a large and growing collection of devices, including X-10 series of power line modules [and] CEBus Dimmer switch.") and page 10 ("CyberHouse's client-server architecture enables remote and mobile users to dial

into their home PCs . . . via the Internet. Once connected, you can check the status of and control all subsystems and devices on your HouseHold Web.")

Corcoran96 (Exhibit 1012) suggests that one solution for providing web access to a powerline-based lighting control system involves CGI scripts. See Corcoran96 at page 236, left column ("Several methods of providing access to CEBus networks using the World Wide Web are described. Details of a working demonstration system are given. The system software incorporates CGI-Bin scripts . . . to support remote access to CEBus networks.") and page 237, left column ("The Common Gateway Interface (CGI) is a standard for interfacing external applications with a HTTP server. It defines a mechanism to allow a WWW client to transmit input data to an executable program which resides on the server. This executable generates a dynamic document from the input data which is returned to the client. CGI was designed as an enhancement for HTTP servers to allow dynamic documents to be generated in response to user input.")

Fleishman (Exhibit 1013) teaches that CGI scripts are typically used to implement image maps, and the advantages associated with their use. See Fleishman at page 1 ("One of the things that mystifies newcomers to the Web is how to set up an image so that when you click on something in it, you're taken to a specific location on the Web. The answer: image mapping. Image maps allow a user to click on an image, have that click translated into a set of (x,y) coordinates

in pixels relative to the image, and then have those coordinates translated into a location or resource on the Internet. The process only *seems* mysterious.") and page 3 ("These coordinates are transmitted to a Common Gateway Interface-enabled program, which interprets them and maps these coordinates against shapes you've defined and assigned to specific Internet resources, such as Web pages.")

Fleishman specifically teaches arrangements wherein an image map includes selectable representations, and that selecting one of the representations shown on the image map will cause transmission of a request including the coordinates of the selected representation on the image map in the manner recited in claims 3, 5, 14, 17 and 18. Thus, Fleishman remedies the deficiency of Wilson with regard to claims 3, 5, 14, 17 and 18, and Corcoran96 provides the motivation for combining Wilson with Fleishman. See also Declaration (Exhibit 1002) at paragraphs 110-113.

14. Claims 3-8, 13, 14 and 17-20 are obvious under 35 U.S.C. §103(a) over Wilson (Exhibit 1015) and REC-html32 (Exhibit 1014)

As discussed in Declaration (Exhibit 1002) paragraphs 114-117, the common knowledge of one skilled in the art would have provided sufficient motivation modify Wilson (Exhibit 1015) so to include at least the limitations of claims 3, 6, 14, 17 and 19 directed to the use of a web browser program and an HTML file. See *Muniauction, Inc. v. Thomson Corp.*, 532 F.3d 1318, 1326-27

(Fed. Cir. 2008) ("When the '099 patent's application was filed on May 29, 1998, the use of web browsers was well known. . . . We therefore begin with an understanding that the modification of Parity® to incorporate web browser functionality represents a combination of two well known prior art elements to a person of ordinary skill in the art. . . . The record in this case demonstrates that adapting existing electronic processes to incorporate modern internet and web browser technology was similarly commonplace at the time the '099 patent application was filed.") See also Soverain Software LLC v. Newegg Inc., 705 F.3d 1333, 1344 (Fed. Cir. 2013) ("Newegg is correct that the use of hypertext to communicate a 'statement document' or 'transaction detail document' was a routine incorporation of Internet technology into existing processes.") discussed in Declaration (Exhibit 1002) at paragraph 119, such arrangements would implicitly, inherently, and/or obviously include the use of TCP/IP as recited in claim 13.

It would have been obvious to further modify Wilson to incorporate the teachings of *REC-html32* (Exhibit 1014) identified in the claim chart shown above with regard to ground 8 so to teach and/or suggest the further limitations of claims 3-5, 14, 17 and 18 directed to the use of an image map and of claims 6-8, 14, 19 and 20 directed to the use of an applet. See Declaration (Exhibit 1002) at paragraphs 120-127. Motivation for such modification may be found in the above-

cited portions of REC-html32, as discussed in Declaration (Exhibit 1002) at paragraph 118.

VII. CONCLUSION

Petitioner requests the Board institute *Inter Partes* review on each challenged claim and on each above unpatentability ground.

Respectfully submitted,

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