**UNITED STATES DISTRICT COURT**
**DISTRICT OF ARIZONA, PHOENIX DIVISION**

**JOOVV, INC. v. MITO RED LIGHT, INC.**
**CASE NO.: 2:23-cv-01084-MTL**

# EXHIBIT 4

October 20, 2023

## Analysis of Mito Red Light's LED Therapy Lights Infringement of U.S. Patent 11,253,719

| U.S. Patent 11,253,719 (the "'719 Patent") (issued Feb 22, 2022)<br>Priority date is Dec. 20, 2018. Mito Red Light Inc. ("MRL") was notified of the '719 Patent on June 27, 2023 with the complaint in this action. Joovv asserts MRL is willfully infringing the '719 Patent. | |
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| | **Mito Red Light's Infringing Instrumentalities:** MitoPRO Series; MitoAdapt Series; MitoPERFORM Series; MitoMOD Series; multi-panel systems using Mito Original 2.0; Mito Red Room; Mito Red Light Cabin; Mito Red Commercial Select; Mito Red Commercial Premiere; and MRL's ancillary products, the MRL Universal Stand (herein collectively, "accused product(s)" or "Infringing Instrumentalities"). Currently, the MitoAdapt Series includes MitoAdapt Min; MitoAdapt Mid; MitoAdapt Max; MitoAdapt Mega; MitoAdapt Elite; and MitoAdapt Ultimate and the MitoPRO Series includes MitoPro 300, 750, 1500, MitoPro Mega, MitoPro Elite and MitoPro Ultimate representing accused products. According to the Court's Sept. 18, 2023 Order, Joovv cannot engage in discovery regarding MRL products and MRL had changed its website, added products and deleted information about its products since May 2023. Joovv expects that discovery will establish infringement of older MRL accused products and the Mega, Elite, and Ultimate LED panels; the MitoPerform Series; MitoMOD Series; the Mito Red Commercial Select; Mito Red Commercial Premiere; Red Room; and Red Light Cabin accused products.<br><br>MRL directly infringes the '719 Patent when it makes, uses, sells, offers to sell, and marketing Infringing Instrumentalities.<br><br>MRL induces others to infringe the '719 Patent when it markets, advertises, and instructs others to construct and use multi-LED panel systems consisting of (A) at least one of the aforementioned Infringing Instrumentalities and (B) at least one of (i) Mito Original 2.0; (ii) MitoPRO models Mega, Elite and Ultimate and similar MitoPERFORM models; (iii) MitoAdapt models Min, Mega, Elite, and Ultimate; and (iv) all MitoMOD models and MitoMODULAR models. Discovery directed to MRL will establish infringement by inducement.<br>.<br>..<br>..<br>.<br>.<br>.<br>. |

| **Claim 1** | Joovv asserts infringement of this claim. |
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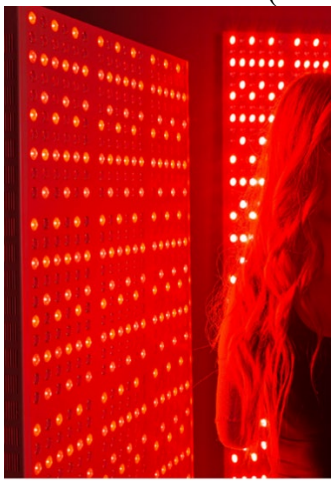
| A method for providing a light therapy treatment, comprising:<br><br>providing a first light therapy device comprising a first housing and a first plurality of lights configured to emit at least one of red light and near infrared light; | All accused products are advertised as being multi-panel light therapy systems (MRL's website (Sept 2023) explains that all its products provide IR/RED light therapy which: improves hair growth, exercise performance; muscle recovery; etc.). The Infringing Instrumentalities include a first light therapy device with a housing and plurality of lights configured to emit at least one of red light and near infrared light ("NIR") as described in Claim 1 and in, *inter alia*,: MitoAdapt User Manual V3, pg. 25; MitoPerform User Manual 1122, pg. 2; MitoPro User Manual March01 (describes MitoMIN, MitoMID, MitoMAX, MitoMEGA, MitoPRO Mega, MitoPRO Elite, MitoPRO Ultimate, MitoPRO 300, 750 and 1500) pg. 21, and 24-26; MitoPERFORM (may be an earlier version of MitoPRO, discovery required), MitoPerform User Manual 1122 shows 4 MitoPerform models, multi-panel systems on pgs. 9, 16 and 18. The use of Infringing Instrumentalities include a 1st light therapy device with a housing and plurality of lights coupled to the housing, the lights configured to emit either Red or NIR light as described in Claim 1. User Manual Mar01 (Original 2.0 & MitoPro)(left and right); MitoPerform Manual 1122 (center left); MitoAdapt Manual V3 (center right).<br> ..  … .... <br>MitoRed products emit Red and/or NIR light. See User Manual Mar01 showing light emission tables for: Original 2.0 Series, MitoPRO Series and MitoPRO Commercial Series (Red 660nm and NIR 850nm), pg. 24-26; see MitoPerform Manual 1122 pg. 6; MitoAdapt Manual V3 pg. 14.<br>.<br>. |

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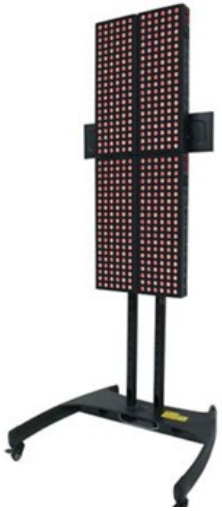
| | MitoMOD Series (website gimmethegoodstuff.org, May 2023, taken down Sept 2023) and see Reviews on MRL website (May 2023, Reviews taken down Sept 2023) for Red and NIR light. MitoMOD image and model list. Review: "You can connect them together" (Feb. 12_22, below). 10 postings. Joovv notified MRL in its lawsuit filed June 2023 of the GimmeTheGoodStuff website and subsequently MRL has taken down and disabled the cited GimmeTheGoodStuff webpage regarding MitoMOD products. Discovery directed at MRL is needed to recover infringement data.<br>  <br>MitoMOD 300 \| MitoMOD 600 \| MitoMOD 900 \| MitoMOD 300 + 900<br>MitoMOD 300 + 600 \| MidoMOD 600 + 900 \| MitoMOD 300 + 900<br>2x MitoMOD 300 + 900 \| 2x MitoMOD 600 + 600 \| 2x MitoMOD 600 + 900<br>2x MitoMOD 900 + 900<br>…<br>..<br>★★★★★ February 12, 2022 at 12:05 AM<br>**MitoMod 300 and 900**<br>" the items are awesome, I love the fact that you can connect them together (one to the other without needing anything else). Having said that, currently, I have them separate, so others can<br>.<br>. |

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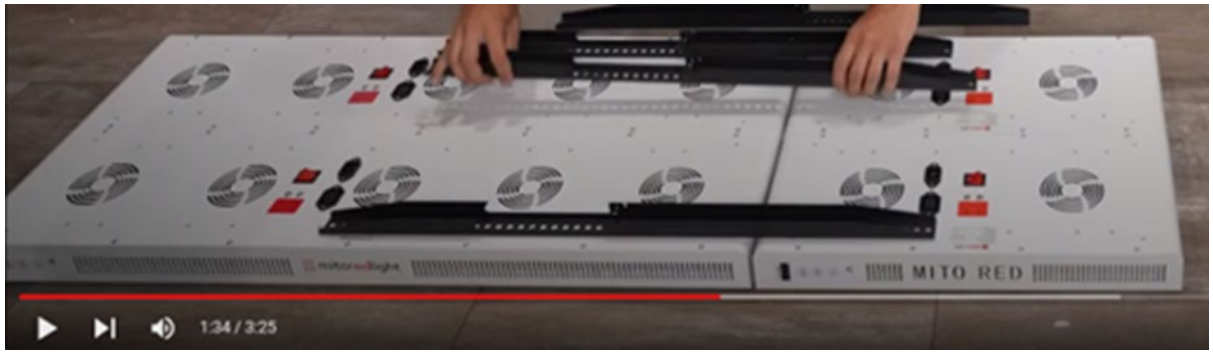
| | Regarding the MRL Original 2.0, MRL's video "Mito Red Light Stand Assembly and MitoPRO Array Setup" Nov 11, 2021, shows a small Original 2.0 LED panel and larger LED panel, removal of the legs from smaller panel (time @1:17; time @ 1:27-29) and time @1:34 shows large and small LED panels bracketed together (lower image).<br>.<br> .... <br>.<br> ..<br>.<br>  <br><br>. |

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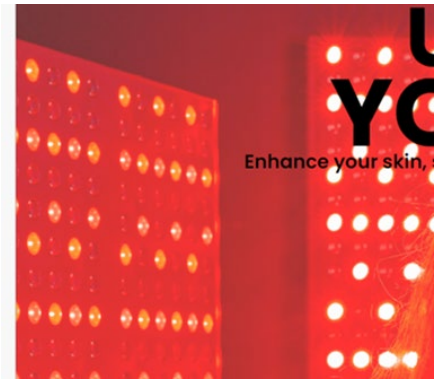
| | Mito Red Room, custom-built, emits Red and/or NIR, (MRL website, May10_23, (upper left and lower images), taken down, not on MRL's Sept 2023 website) consists of Two MitoPro Ultimates or Two MitoAdapt Ultimates. See Red Light Room video, MRL website shows 2 LED panel digital control functions at times @ 0:50 and 1:01. Discovery will show (a) Red Room panels had paired indicator lights and (b) Red Light Cabin Product, custom-built, emits Red and/or NIR, with 2 Mito Red Commercial Select LED panels or 2 Mito Red Commercial Premiere LED panels also include a 2-panel or a multi-panel digital control (upper center and upper right), similar to the Mito Red Room. In September 2023, the Red Room is no longer listed on the MRL website but was earlier offered for sale by MRL (see ECF 1-10, et seq.) and the Red Light Cabin is a built-to-order product. MRL website Sept 2023.<br> … …  <br>.<br> ..<br>... Joovv will seek discovery for: MitoPERFORM Series; MitoMOD Series; Mega, Elite, and Ultimate LED panels; Mito Red Commercial Select; Mito Red Commercial Premiere; Red Room; and Red Light Cabin accused products. Per MRL website (September 2023), Mito Red Commercial Select and Mito Red Commercial Premiere accused products are not available for sale. Discovery is needed. |

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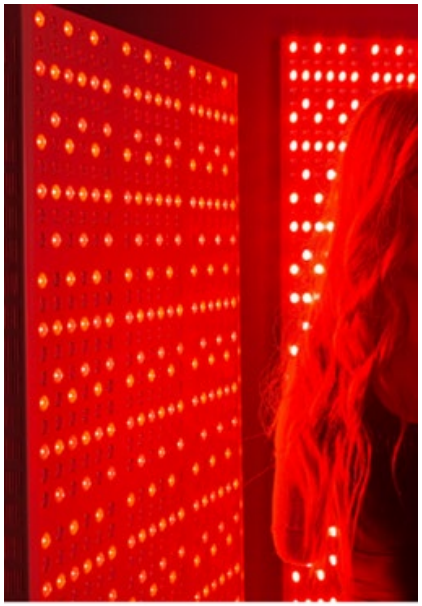
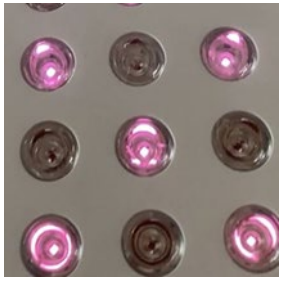
| providing a second light therapy device comprising a second housing and a second plurality of lights configured to emit at least one of red light and near infrared light; | The Infringing Instrumentalities include the use of a 2nd light therapy device (LED panel) with a housing and plurality of lights configured to emit at least one of Red and/or NIR as described in Claim 1. The Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown below. User Manual Mar01 (MitoPro)(left); MitoPerform Manual 1122 (center); MitoAdapt Manual V3 (right). Lower images show Red+NIR, then Red only, then NIR only.<br> …  …. <br>.<br> ..... .....  <br>. |

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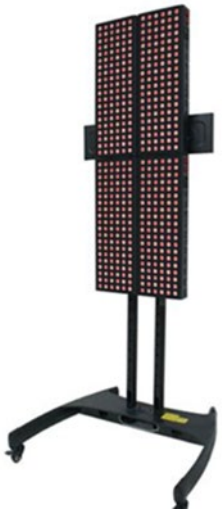
| | MLR multi-panel systems are shown and discussed in MRL's User Manual Mar01 for: MitoPRO Series and MitoPRO Commercial Series (Red/NIR), pg. 24-26; see MitoPerform Manual 1122 pg. 6; MitoAdapt Manual V3 pg. 14; MitoMOD Series (website gimmethegoodstuff.org, May 2023, taken down), see MRL website May 2023 Reviews (taken down) for Red/NIR lights. MitoMOD image and model list, Review states: "You can connect them together" referring to a 330 and a 900 LED panel system. (Feb. 12_22, below).<br><br>  <br>…<br>MitoMOD 300 \| MitoMOD 600 \| MitoMOD 900 \| MitoMOD 300 + 900<br>MitoMOD 300 + 600 \| MidoMOD 600 + 900 \| MitoMOD 300 + 900<br>2x MitoMOD 300 + 900 \| 2x MitoMOD 600 + 600 \| 2x MitoMOD 600 + 900<br>2x MitoMOD 900 + 900<br>..<br>★★★★★ February 12, 2022 at 12:05 AM<br>**MitoMod 300 and 900**<br>" the items are awesome, I love the fact that you can connect them together (one to the other without needing anything else). Having said that, currently, I have them separate, so others can<br>.<br>. |

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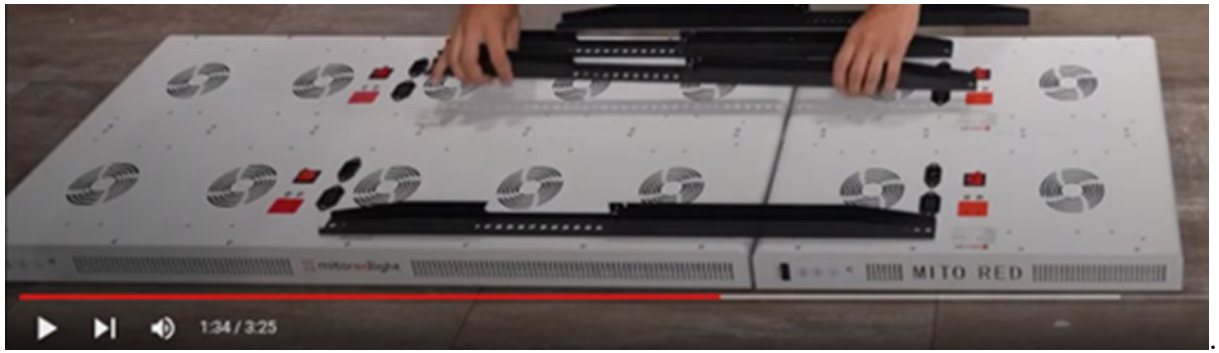
| | Regarding the MRL Original 2.0, MRL's video "Mito Red Light Stand Assembly and MitoPRO Array Setup" Nov 11, 2021, shows a small Original 2.0 LED panel and larger LED panel, removal of the legs from smaller panel (time @1:17; time @ 1:27-29) and time @1:34 shows large and small LED panels bracketed together (lower image).<br>.<br> <br><br>.<br>  <br><br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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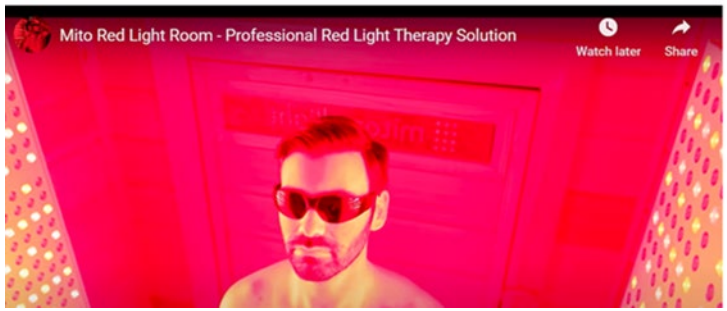
| | Mito Red Room, custom-built, emits Red and/or NIR, (MRL website, May10_23, (upper left and lower images), taken down, not on MRL's Sept 2023 website) consists of Two MitoPro Ultimates or Two MitoAdapt Ultimates. See Red Light Room video, MRL website shows 2 LED panel digital control functions at times @ 0:50 and 1:01. Discovery will show (a) Red Room panels had paired indicator lights and (b) Red Light Cabin Product, custom-built, emits Red and/or NIR, with 2 Mito Red Commercial Select LED panels or 2 Mito Red Commercial Premiere LED panels (not available for sale) also include a 2-panel or a multi-panel digital control (upper center and upper right), similar to the Mito Red Room. In September 2023, the Red Room is no longer listed on the MRL website but was earlier offered for sale by MRL (see ECF 1-10, et seq.) and the Red Light Cabin is a built-to-order product. MRL website Sept 2023.<br> .. .. <br>..<br>  <br>Joovv will seek discovery for multi-panel systems for: MitoPERFORM Series; MitoMOD Series; Mega, Elite, and Ultimate LED panels; Mito Red Commercial Select; Mito Red Commercial Premiere; Red Room; and Red Light Cabin accused products. Discovery is needed. |

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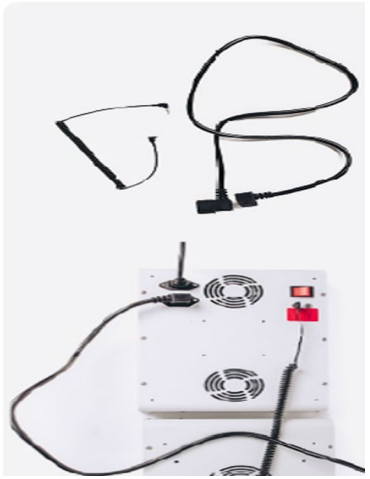
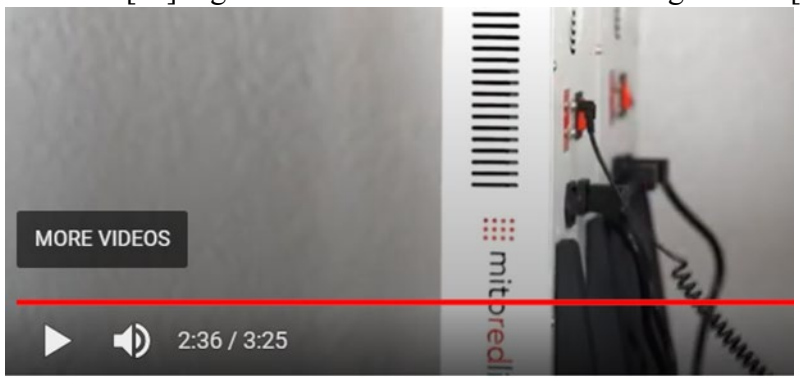
| communicatively coupling the first light therapy device directly to the second light therapy device; | MRL offers multi-panel LED light therapy systems and instructs others to make and use and sometimes sell the same. The Infringing Instrumentalities include communication (comm) modules and digital control signal comm cables communicatively coupling the 1st LED panel to the 2nd LED panel which causes, in an initial configuration, the 1st LED panel to operate in a lead mode and the 2nd LED panel to operate in a follow mode. The communication or comm cables are sometimes referred to herein a "control cables". MRL refers to master/primary/lead 1st LED panel and sub/ss:ss/follow 2nd LED panel. Light control signals, such as ON/OFF, coordinate 1st and 2nd LED panel operations, including light Mode controls Red/A (Mode A) only, or NIR/I (Mode I) infrared only ("I" for infrared light), and the combo Red+NIR/A1 (see images above). The linking digital comm control cable is attached to the output (OUT) port of the primary/main/lead 1st LED panel and the other end of the control cable is attached to the input (IN) port on the sub/ss:ss/follow 2nd LED panel. MRL User Manual Mar01 explains the linking comm control cable for leas 1st LED panel and follow 2nd LED panel. MitoPro User Manual March01 is titled and describes MRL Red Original 2.0, MitoPro Series and MitoPro Commercial Series and linking comm control cable (left) and an onboard control panel (right). The "mode" button on lead LED panel cooperatively controls Red/A or NIR/I light emission on both panels. Display shows Red/A and NIR/I.<br>.<br>**MitoPRO Series**<br>**Connecting two devices (electronically)**<br>Locate the linking and jumper power cables.<br>Start by plugging your master (main control) panel directly into wall power using the provided power cord.<br>Then using the jumper power cable connect the master panel to your second or "SUB" panel, continue this connection with additional panels.<br>Next using the linking cable go from the "Output" port of the primary light to the "Input" port of the secondary light. To connect additional lights, simply connect another cable from the Output port of the 2nd light to Input port of the 3rd light (and so on with a max of 4 lights).<br>All lights that have the Input port occupied will read "SUB" on the control screen and will therefore be controlled by the Primary light. To operate any light individually simply unplug the linking cable from the Input port.<br>  <br>.....<br> <br><br>. |

Mito Red Light Stand Assembly and MitoPRO Array Setup shows Mito LED panels linked by control cables (left/right @ 2:47), therefore the LED panels have linked communication modules. See https://youtu.be/XCAzpLFrhhg  Per MRL website (Sept 2023), MitoAdapt works with the Vertical, Horizontal and Floor stand and is compatible and MitoPro series panels can be "Connect[ed] together ... on one of our Mito Red Light Stand[s]."



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MitoAdapt Manual V3, p. 14, linking comm control cable/cord is the "signal" cable from "main" 1st LED panel that controls sub/ss:ss/follow 2nd LED panel. Both LED panels are coomunicatively coupled. Mitoadapt-quick-guide-edited-04-21, pg. 4, below

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Connect the linking cable from the port marked 'OUT' on your main panel and connect to the port marked 'IN' on the second panel. Repeat this process for additional panels.

When connected together properly the main control panel's screen should display the session time, mode selected, and brightness. The other panels should display "ss:ss"

Use the signal cable to connect each panel. Select which of your panels will be the main panel that controls the others.

Place one end of the cable in the port marked 'OUT' on the main panel and put the other end in the 'IN' port. If you have multiply panels continue this process.

This may sound tricky, so check out the main user manual if you

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| | Multi-panel MitoAdapt products are shown below. MRL website (Sept 2023) explains: LED panels have “Advanced Digital Control Panel: Control the modes, brightness, time and Bluetooth connectivity from the built-in digital control panel.” MRL’s website explains “Digital Control Panel with Timer: All Mito Red Light panels now come standard with advanced digital control panel and built in timer.” See also MRL_Mito_Red_and_Pro-XL_Manual_Print_File_1. This digital control panel has a button control for light control. Multi-panel systems having comm modules coupled to both the connection comm control cable and onboard control panels (left, left center and right) for coordinated operational panel control.<br>.<br> ... .. ... .<br>.<br>.<br>. |

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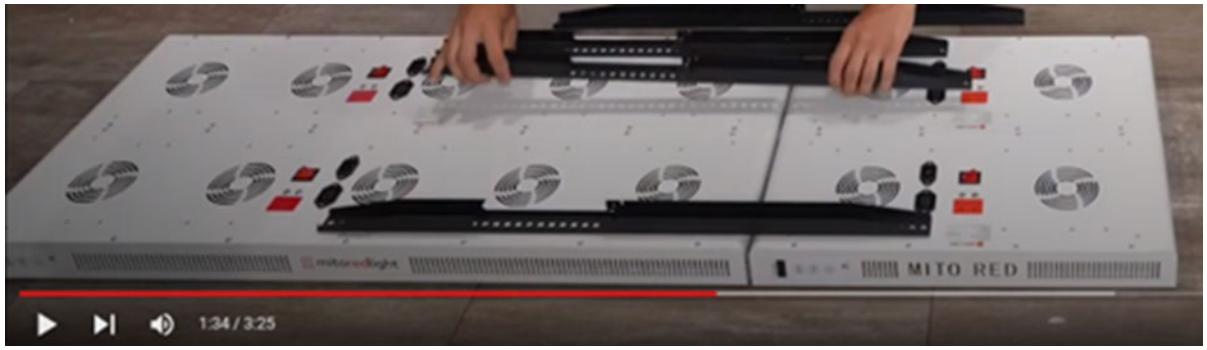
| | MRL video “Mito Red Light Stand Assembly and MitoPRO Array Setup” Nov 11, 2021, shows small Original 2.0 panel, or MitoPro 300 panel, or MitoAdapt Min panel COUPLED to a larger LED panel via brackets. The video (https://youtu.be/XCAzpLFrhhg) shows removal of legs from small panel; time @ 2:00 shows lateral and longitudinal brackets; time @ 2:36 shows digital comm control cable attached from 1st panel OUT port to 2nd panel IN port and 2nd panel OUT port to 3rd panel IN port. At time @ 3:06: “if set up correctly the *master control panel will control the rest of the lights. The other lights will be in sub or follower mode.*” See small LED panel: time @1:17; time @ 1:27-29 remove legs; time @1:34 large and small LED panels bracketed together.<br>.<br> … <br>.<br>  <br><br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| | BenefitsofHeatandLight (BOH) website ([https://benefitsofheatandlight.com/red-light-therapy-devices/](https://benefitsofheatandlight.com/red-light-therapy-devices/) May 2023, taken down Sept 2023): MRL User Manuals and Video Tutorials for Mito Red Original 2.0 Series; MitoAdapt User Manual V3; and MitoPro User Manual March01 (describes MitoMIN, MitoMID, MitoMAX, MitoMEGA, MitoPRO Mega, MitoPRO Elite, MitoPRO Ultimate, MitoPRO 300, 750 and 1500) etc. MRL onboard control panel with light Mode selector (upper far left) and display indicating light emissions: Red/A or NIR/I per the selected Mode. Once light Mode is indicated on display and user selects GO/ON/OK, the display shows treatment countdown time and lead 1st panel controls follow 2nd panel via comm control cable. Discovery needed on MitoMin lights (center right). MRL's Commercial Premiere (upper right) shows separate Red and NIR indicator lights. MitoPRO 1500 Review at [www.youtube.com/watch?v=iWoFXon6q-E](www.youtube.com/watch?v=iWoFXon6q-E) shows Red/A (time @ 34:36); NIR/I (@ 34:22). Mito ProXL control panel is combo Red+NIR/A1 is shown (lower image).<br>.<br> <br>.<br> |

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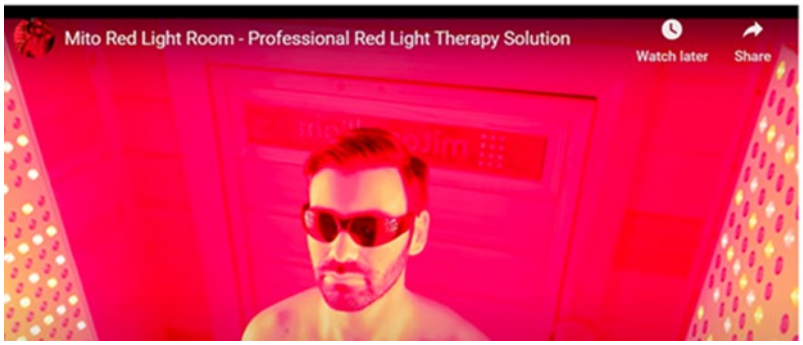
| | Mito Red Room: (MRL website May 2023, now taken down, see ECF 1-10 et seq.) shows multi-panel control at 0:50/1:01 per Red Room video (May 2023, taken down) and 2 MitoPro/MitoAdapt Ultimates (upper image with pair of indicator lights). Multi-panel MODE control: times @ 0:50 and 1:01 (lower). For coordinated operation, both LED panels can be wired and communicatively coupled via linking comm control cable. Per May website: Red Room is a custom product, therefore multiple LED panels can be placed together as shown in the MitoAdapt side-by-side configuration above. The onboard Red Room control shows mode selection on the main/primary/lead 1st LED panel.<br>.<br> <br><br>...<br>  <br><br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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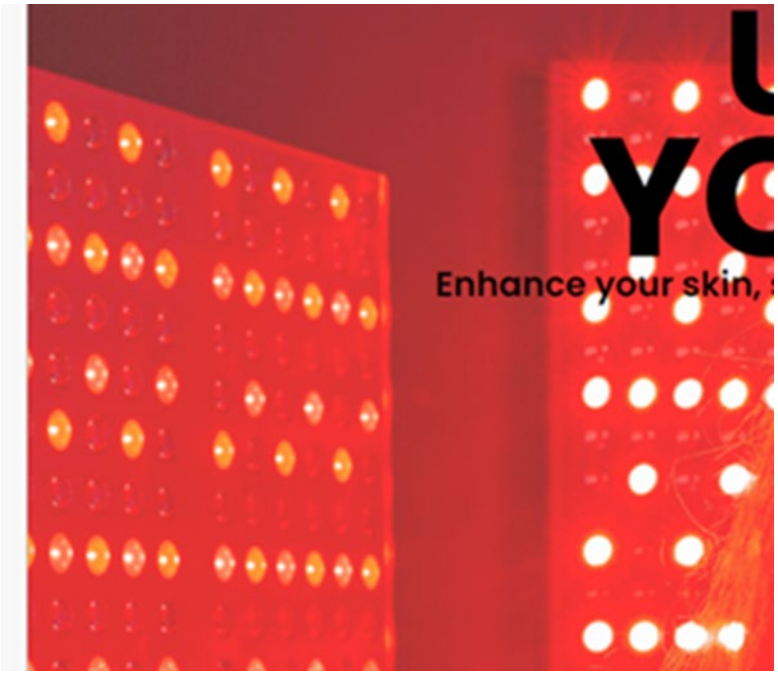
| | Red Light Cabin is built-to-order per MRL website Sept 2023. Discovery directed to MRL for the following accused products will establish infringement: MitoPERFORM Series; MitoMOD Series; Original 2.0 in a multi-panel system; the Mega, Elite, and Ultimate LED panels; Mito Red Commercial Select; Mito Red Commercial Premiere; Red Room; and Red Light Cabin accused products. Sept 2023 website: Mito Red Commercial Select and Mito Red Commercial Premiere are not available for sale. Mito Red Light Commercial Premiere User Manual © 2020 (obtained Sept 2023) states wavelength range is 630nm to 830nm. The Commercial Premiere image (below) shows (i) Red indicator and (ii) NIR indicator on the onboard control panel. 2 Mito Red Commercial Select LED panels or 2 Mito Red Commercial Premiere LED panels also include a 2-panel or a multi-panel digital control (control panel left, LED panels right, Commercial Premiere Use Manual).<br>.<br> .....  <br>. |

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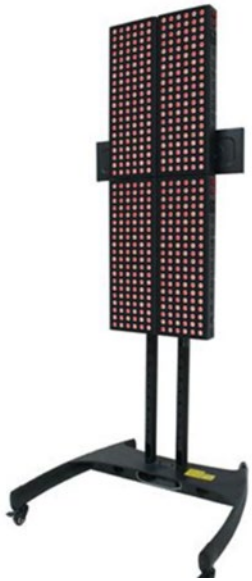
| | MitoMOD Series (gimmethegoodstuff.org (May 2023), now taken down by MRL, Sept 2023) shows side-by-side LED panels. The MRL website May 2023, Reviews, states "*You can connect them together*" indicating multi-panel systems (Feb. 12_22, below)(taken down). MitoMod can be 4-panel LED system (below) or 2-panel system with 300 + 900 MitoMOD panels (see text below), the sub/ss:ss/follow 2nd panel senses the comm control signal at IN port, the main/primary/lead 1st panel sends the control signal from OUT port to the follow 2nd panel IN port via comm control cable.<br>  …<br>…<br>★★★★★ February 12, 2022 at 12:05 AM<br>**MitoMod 300 and 900**<br>" the items are awesome, I love the fact that you can connect them together (one to the other without needing anything else). Having said that, currently, I have them separate, so others can<br>. |

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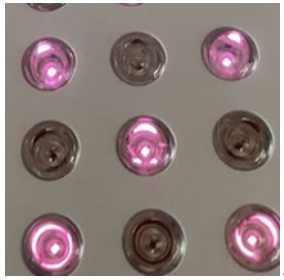
| emitting at least one of red light and near infrared light from at least a portion of the first plurality of lights and at least a portion of the second plurality of lights; | Other than MRL stands, all MRL Infringing Instrumentalities include Red/A and/or NIR/I light emissions as well as combo Red+NIR/A1 emissions. Red/A and/or NIR/I light emissions are generated from 1st and 2nd portions of MRL's LED panels. MRL's Manuals, promotional videos and social media instruct users on LED operations. Upper left shows Red vs. NIR lights (MRL web flash May 2023). MRL User Manual Mar01 shows Red vs. NIR Tables for: MitoPRO Series and MitoPRO Commercial Series, pg. 24-26; MitoPerform Manual 1122 pg. 6; MitoAdapt Manual V3, p. 14; MitoMOD Series (website gimmethegoodstuff.org. May 2023 taken down) (right) and MRL website May 2023 Reviews discuss Red and NIR light. Lower images show Red+NIR, then Red only, then NIR only.<br>.<br>. .. <br> ..... .....  . |

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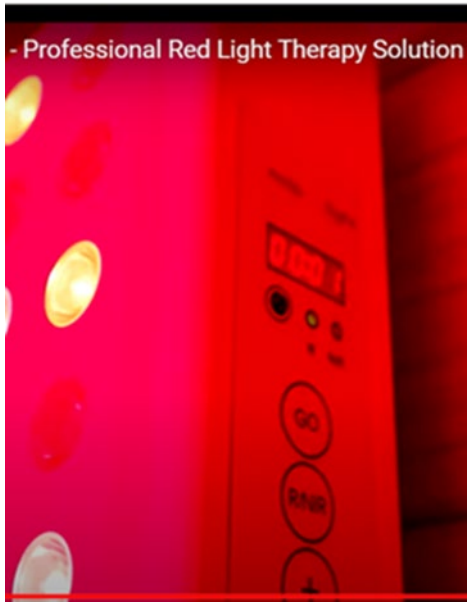
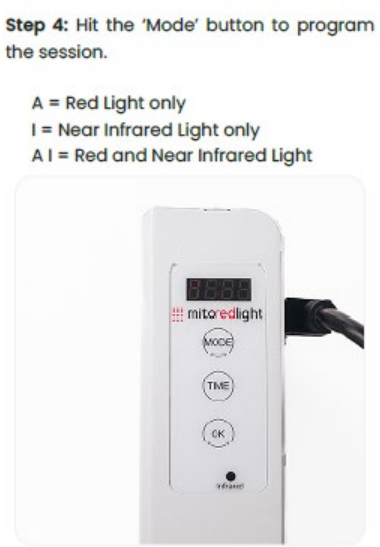
| | MRL Room (MRL website May 2023 video, taken down): uses two MitoPro/Adapt Ultimate LED Panels controlled by one onboard control panel (left). MitoPro User Manual March01: see Red/A; NIR/I and Red+NIR/A1 light control table for MitoPro (center) and timer and NIR light indicator (right)(MRL web flash, May 2023). These controls select Red/A or NIR/I.<br>.<br>  <br><br>..<br>  <br><br>..<br> <br><br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| | MitoAdapt Bracket Manual (left image); MitoAdapt User Manual (center image); MitoAdapt User Manual shows Cell Phone App (right image) which permits users to select Red or NIR. The cell phone is communicatively coupled via Bluethooth or other near field comm systems to the 1st LED control panel. The Sept 2023 website explains "Advanced Digital Control Panel: *Control the modes*, brightness, time and *Bluetooth connectivity from the built-in digital control panel*. Mobile App Compatible: Enable Bluetooth on your light and on your mobile device to use the MITO RED LIGHT App."<br> <br><br> <br><br> <br><br> <br><br>Once your mode is selected, adjust your time and brightness settings then hit the start button to begin your session.<br>… …<br>. |

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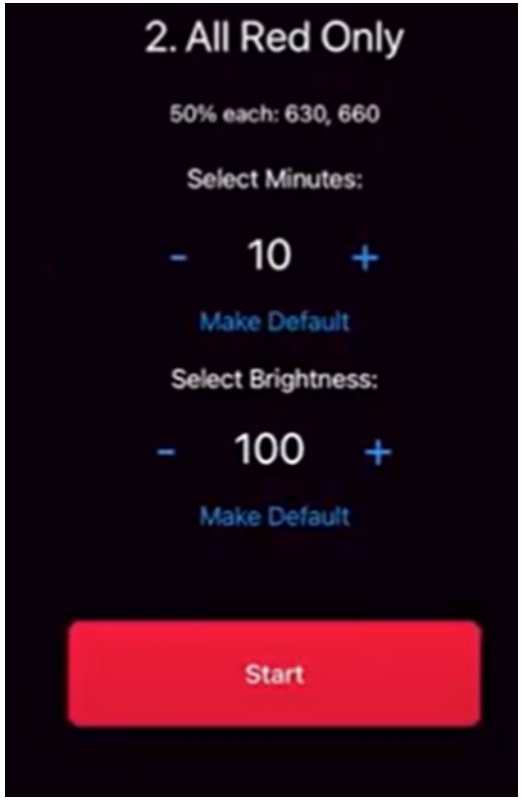
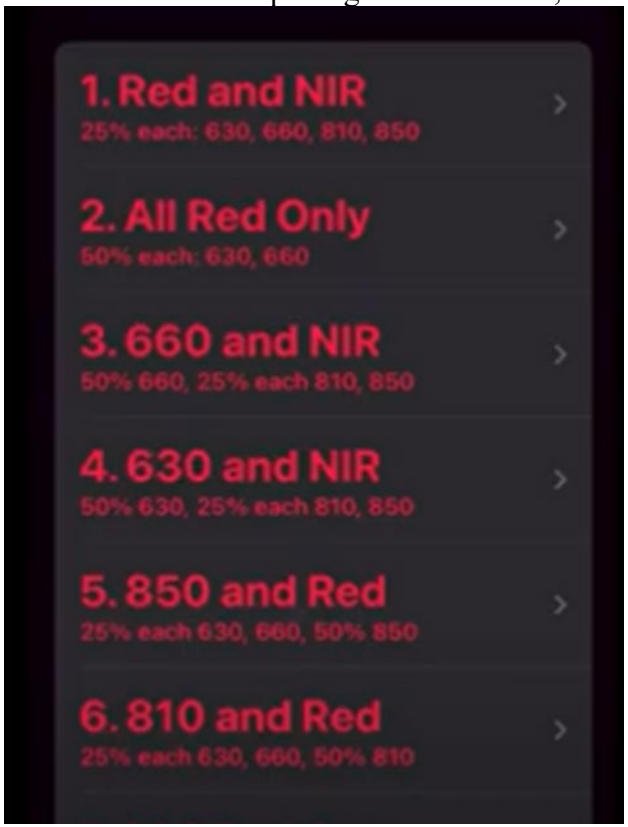
| | Phone APP shows touch screen input buttons and indicator lights to select Red or NIR. MRL website May 2023, “MitoADAPT Series Overview Part 1,” time at 2:48 (left image, Mode 1, combo Red+NIR/A1); “All Red Only” and NIR touch screen button input regions select Red, time @2:39.<br>  <br><br>..<br>  <br><br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| | MRL's website (Sept 2023) shows that the MitoPro (left image) can be controlled by a remote control (detailed on the right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with remote control technology. *Toggle up or down on the timer, reset unit settings, and operate multiple units with the same remote*."<br>.<br> <br><br>..... |
| placing the first light therapy device in a lead mode; and placing the second light therapy device in a follow mode whereby the second light therapy device performs operations as instructed by the first light therapy device. | The Infringing Instrumentalities include user instructions placing the 1st LED light therapy panel in a main/master/lead mode and the 2nd LED light therapy panel in a sub/ss:ss/follow mode such that the 2nd LED light therapy panel performs operations as instructed by the 1st LED light therapy panel, as explained above in this claim 1. The Manuals, promotional videos and social media instruct users as shown below. The Infringing Instrumentalities include the 1st light therapy device and the 2nd light therapy device configured to operate in a lead, and a follow mode. MRL User Manual Mar01: 1st LED panel is the Master/lead mode when linking comm control cable plugged into 1st panel OUT port and the 2nd LED panel is sub/ss:ss/follow mode when the coupled linking comm control cable is plugged into 2nd IN port.<br>. |

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| | See MitoPRO (upper left, p. 15), MRL User Manual March01, p. 13 (above in this claim 1) shows comm control cable control connection and shows “input” and “output” ports (upper right) for the cable. The MitoAdapt Manual explains the linking cable permits the master 1st LED panel controls the sub/ss:ss/follow 2nd panel. See IN/OUT ports in MitoAdapt User Manual V3, pg. 10 (lower). MitoAdapt quick-guide, pg. 4 (upper), describes “linking” cord as the “signal” or control cable from the “main panel” (the lead LED panel) that controls the “sub” or “ss:ss” or “follow” 2nd panel. Phone APP control (lower) controls the main/master/lead LED panel when the linking/signal control cable is coupled 1st-panel-output-to-2d-panel-input in the sub/ss:ss/follow mode.<br><br>Start by plugging your master (main control) panel directly into wall power using the provided power cord.<br><br>Then using the jumper power cable connect the master panel to your second or “SUB” panel, continue this connection with additional panels.<br><br> <br>13<br>…<br>.<br>Use the signal cable to connect each panel. Select which of your panels will be the main panel that controls the others.<br><br>Place one end of the cable in the port marked 'OUT' on the main panel and put the other end in the 'IN' port. If you have multiply panels continue this process.<br><br>This may sound tricky, so check<br> |

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| | From MRL's MitoAdapt-quick-guide-edited-04-21, the user is instructed to use theCell Phne App to control the light emission Mode. MitoAdapt can be a multi-panel system as shown above.<br> <br>Download the Mito Red Light app using the QR codes below! Start the app and fill out the brief onboarding questions. Accept permissions and make sure the Bluetooth on your mobile device is turned on.<br> <br>Select one of the 11 modes, and follow the prompts.<br><br>If you need to stop your session, press 'Stop' on your app or press 'Go' on the main panel.<br><br>Note: Modes 9, 10, and 11 are near infrared light only. NIR light is invisible to the naked eye so it may<br>..<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| | Mito Red Room uses two MitoPro/ MitoAdapt Ultimate LED panels. MitoPro MEGA, ELITE and ULITMATE are large MitoPRO systems. See MRL website, May10_23 (taken down), therefore they operate the same as discussed above. Mito Red Room multi-panel control shown at video 0:50/1:01 (upper left). The lead or master LED control provides coordinated operation with the 2nd LED panel (upper right). The onboard control panel has input buttons and indicator lights for Red and NIR selections. MitoMOD: see website gimmethegoodstuff.org, May 2023 (takne down), is an earlier version of the 300 + 900 MRL models. The MRL website May 2023, Reviews (taaken down) states: "You can connect them together" referring to the combination of 300 + 900 MitoMOD panels (Feb. 12_22, below). The lead/follow coordinated performing operation applies to the Mito Red Room and MitoMOD multi-panel systems.<br> . <br>..<br>★★★★★ February 12, 2022 at 12:05 AM<br>**MitoMod 300 and 900**<br>" the items are awesome, I love the fact that you can connect them together (one to the other without needing anything else). Having said that, currently, I have them separate, so others can<br>.<br>.<br>.<br>. |

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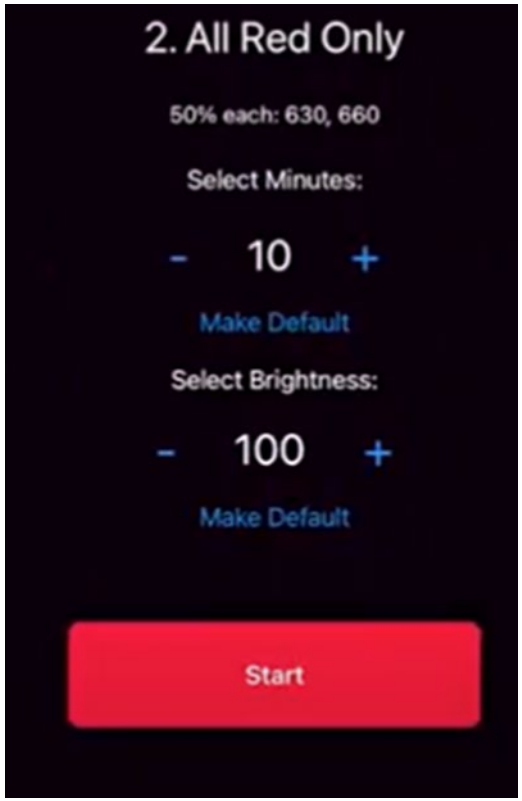
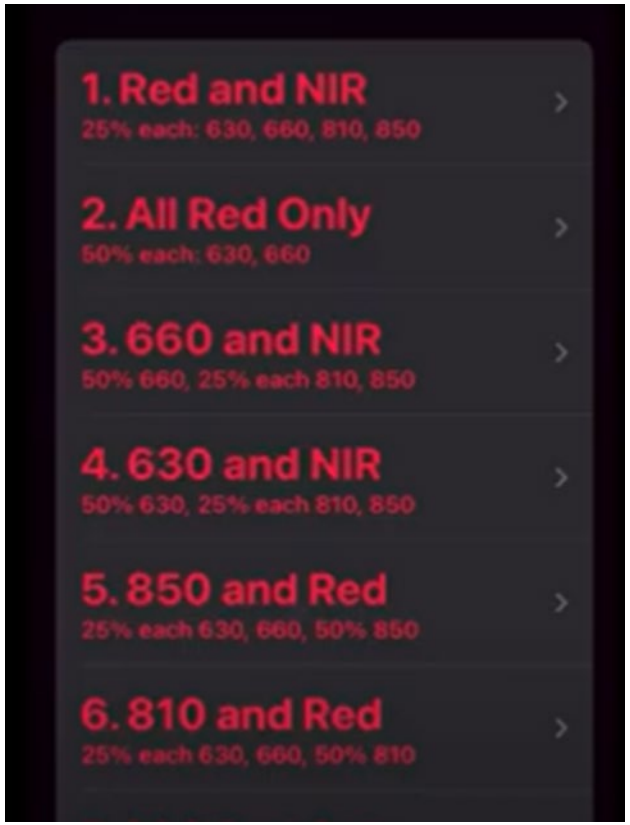
| | The cell phone APP operates in the same manner, that is, the 1st master/main/lead LED panel controls the MitoADAPT device both by the onboard control panel and, simultaneously, by the Cell Phone APP. Stated otherwise, the master/main/lead LED panel can be controlled either by physical interaction with the onboard control panel or by the cell phone APP. See MRL website May 2023, video "MitoADAPT Series Overview Part 2," 2:36/4:56) which shows this dual control system. Since multi MRL LED panels are communicatively linked by the comm control cable, the dual control system (onboard panel or APP) can control both the 1st and 2nd LED panel by operating the 1st master/main/lead panel.<br>  <br><br>…<br>  <br><br>.<br>.<br>. |

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| | "The MitoRedLight App is the remote control for your Mito Red Light Adapt device! Through the *App, you connect to your MitoAdapt device, select the channel, set the time duration, and start your therapy session.*" See MRL website, Sept 2023 and see Apple AppStore Sept 2023. As noted above, the panel-to-panel connection for MitoAdapt LED panels establishes communicative coupling with the linking digital control cable and comm modules. MRL's "User Manual Mito Red Original 2.0 Series and MitoPRO Series" shows a digital linking cable for two LED panel control (cable at OUT port defines primary/lead LED panel and cable at IN port defines the sub/ss:ss/follow LED panel).<br>. MRL's website (Sept 2023) shows that the MitoPro (left image) can be controlled by a remote control (detailed on the right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with remote control technology. *Toggle up or down on the timer, reset unit settings, and operate multiple units with the same remote*."<br>. The MitoPro Manual (Sept 2023) does not discuss any different operational controls for the MitoPro remote as compared to the MitoAdapt Cell Phone App. Therefore, the MitoPro LED panels, communicatively coupled together via comm control cable and comm modules, are subject to the MitoPro Remote Control.<br>.<br> <br><br>.... |

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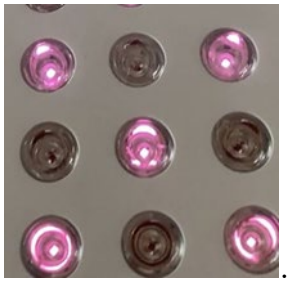
| **Claim 2** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 1, wherein the emitting at least one of red light and near infrared light from at least the portion of the first plurality of lights and at least the portion of the second plurality of lights<br><br>is accomplished using a control panel coupled to the first housing of the first light therapy device. | The Infringing Instrumentalities include the use of a 1st and a 2nd light therapy device (LED panel), both configured to emit at least one of Red and/or NIR as described in Claim 1. The Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 (claim 2 depending from claim 1), the control panel operations of the 1st and the 2nd LED panels, as they apply in equal measure to the specific operations in this claim 2. In this claim 2, the 1st LED panel has a portion of lights emtting Red/A light (Mode A) and a portion of lights emitting NIR/I (Mode I).<br>. All MRL panels (the accused products) have some NIR lights and some Red lights. See below combo Red+NIR/A1, Red/A, and NIR/I.<br>.<br> ..... .....  .<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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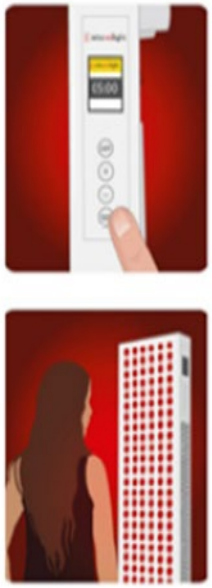
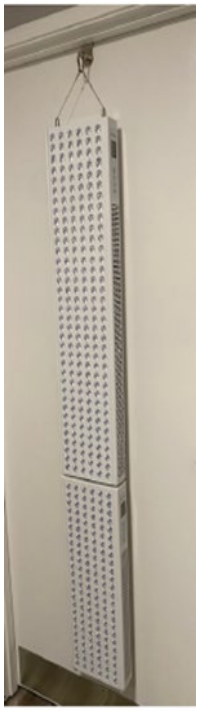
| | The instructions for the Infringing Instrumentalities, configure a multi-panel system, and include a 1st LED panel with a 1st control panel coupled to the 1st LED housing and, since the control panel is used by the operator to control the LED panel, the control panel is communicatively coupled to the LED lights in the LED panel. The MitoPro User Manual March01, titled “MRL Red Original 2.0, MitoPro Series and MitoPro Commercial Series” shows an onboard control panel (left(Pro), left center(Original), center (Commercial)). The “mode” button on the lead LED panel cooperatively controls Red/A or NIR/I light emission on coupled panels. Display shows Red/A and NIR/I light control settings. MitoAdapt Manual V3, pg. 9, shows a 2-panel vertical hanging system with control panels on each LED panel (right). The curly “linking” cable/cord is the “signal” or control cable from the “main” 1st LED panel that controls the “sub” or “ss:ss” 2nd LED panel. Both LED panels need a comm modules to process control signal commands. Mitoadapt-quick-guide-edited-04-21, pg. 4, (center right).<br>.<br> … … …   ..<br>. |

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| | MRL video "Mito Red Light Stand Assembly and MitoPRO Array Setup" Nov 11, 2021, shows small Original 2.0 panel, or MitoPro 300 panel, or MitoAdapt Min panel COUPLED to a larger LED panel via brackets. The video (https://youtu.be/XCAzpLFrhhg) explains at time @ 3:06: "*if set up correctly the master control panel will control the rest of the lights*. The other lights will be in sub or follower mode." BenefitsofHeatandLight (BOH) website (taken down) shows MRL User Manuals and Video Tutorials for Mito Red Original 2.0 Series; MitoAdapt User Manual V3; and MitoPro User Manual March01 (describes MitoMIN, MitoMID, MitoMAX, MitoMEGA, MitoPRO Mega, MitoPRO Elite, MitoPRO Ultimate, MitoPRO 300, 750 and 1500), and shows MRL onboard control panel with Mode selector (left) and display selectively indicating light emissions Red/A or NIR/I. Once Mode is indicated on control panel display and user selects GO/ON, the display shows treatment countdown time. BOH shows MitoMin lights (center left). MRL's Commercial Premiere (center right) shows separate Red/NIR indicator lights. MitoPRO 1500 Review at www.youtube.com/watch?v=iWoFXon6q-E notes A/Red (time @ 34:36); and I/NIR (time @ 34:22). The Mito ProXL control panel with A1 (Red+NIR) is shown (right).<br>.<br> <br><br>... .. ... .<br>.<br>.<br>.<br>. |

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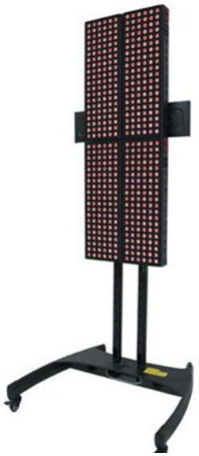
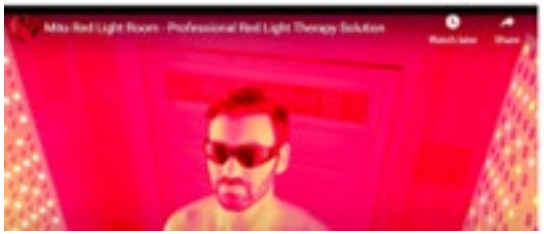
| | MitoMOD Series (gimmethegoodstuff.org (May 2023)(taken down) shows a 4-panel system which can be reconfigured as a 2-panel side-by-side system (left). The MRL website May 2023, Reviews (taken down), states "*You can connect them together*" indicating multi-panel systems (Feb. 12_22, 2022). MitoMod can be 4-panel LED system (below) or 2-panel system with 300 + 900 MitoMOD panels (see text in claim 1 above). For common, connected, coordinated control, the MitoMod must have a control panel. Mito Red Room, a custom-build, (MRL website May 2023, taken down) video shows multi-panel control at 0:50/1:01 and uses 2 Pro-Adapt Ultimates (Ultimate panel on right) with pair of indicator lights, multi-panel Mode panel control at times @ 0:50 and 1:01 (lower). The onboard Red Room control panel shows mode selection on the lead/1st LED panel.<br>.<br>  ..... <br><br>.<br>  <br>.....<br>.<br>. |

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| | Red Light Cabin, a built-to-order accused product (MRL website Sept 2023) uses Mito Red Commercial Select and Mito Red Commercial Premiere which are not currently available for sale. Mito Red Light Commercial Premiere User Manual © 2020 (obtained Sept 2023) states wavelength light emission range is 630nm to 830nm. The Commercial Premiere control panel (below) shows (i) Red indicator and (ii) NIR indicator on the onboard control panel.<br>.<br> <br><br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| | The ’719 Patent discusses remote control systems to control the LED panels. “The clinician may communicatively couple a light therapy device 12, or a remote computing device (e.g. a smartphone), located in the clinician's office to one or more light therapy devices 12 located nearby the patient.” 5:64-67. “[T]he plurality of light devices 12 may further be communicatively coupled to a remote computing device operated by a third party. For example, a third-party clinician or technician may communicatively couple their remote computing device to the light therapy system 10 to remotely communicate with the system 10.” 6:39-44. The control panel for the 1st LED/lead panel may be a remote control, either a cell phone or a specially configured remote control.<br>. Instructions for use and MRL’s marketing materials promote accused products, e.g., MitoAdapt, with Cell Phone App control or MRL’s special remote control, both of which are communicatively coupled to the 1st LED housing and the Red/NIR lights in the 1st LED panel. MitoAdapt Bracket Manual (onboard control, left); MitoAdapt User Manual (onboard control, center); MitoAdapt User Manual shows MRL’s Cell Phone App (right) enables Red+NIR/A1; Red/A; and NIR/I Mode control; ON/OFF and Pause controls for the 1st and the follow-on 2nd LED panels. The Phone App is remotely connected to the lead/1st LED panel which controls the follow/2nd panel. The Sept 2023 website explains “Advanced Digital Control Panel: *Control the modes*, brightness, time and Bluetooth connectivity *from the built-in digital control panel. Mobile App Compatible*: Enable Bluetooth on your light and on your mobile device to use the MITO RED LIGHT App.”<br>.<br> ..... ..... <br>Once your mode is selected, adjust your time and brightness settings then hit the start button to begin your session. |

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| | Phone APP has touch screen control buttons and indicator lights. MRL Sept 2023 website, "MitoADAPT Series Overview Part 1," video time @ 2:48 and 3:59 (Mode 1, Red+NIR); Red and NIR input buttons; indicators for Red+NIR/A1, Red/A (time @2:39) and NIR/I/850. App controls 1st panel, lead 1st panel sends control signal to sub/ss:ss/follow 2nd panel via control comm cable.<br>. MRL's website (Sept 2023) shows that the MitoPro and special remote control (left; remote control on right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with *remote control technology. Toggle up or down on the timer, reset unit settings, and operate multiple units with the same remote*."<br>.<br> <br>..... .<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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| **Claim 3** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 2, further comprising pressing a first input button on the control panel of the first light therapy device, wherein the emitting occurs in response to the pressing. | The Infringing Instrumentalities include the use of a 1st and a 2nd light therapy device (LED panel), both configured with input button to control light in response to pressing the button. All MRL LED panels (a) emit at least one of Red and/or NIR as described in Claim 1 (this is the light Mode selection button) and (b) have an ON/OFF button also controlling emission. The Manuals, promotional videos and social media posts instruct users to configure and use the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1 and as discussed above in connection with the onboard control panel and the Cell Phone App and MRL remote control. MRL offers for sale the accused products configured as multi-panel systems with these types of input buttons and instructs users as to the operations of MRL's LED panels. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1 and 2 (claim 3 depending from claims 1 and 2), the control panel operations of the 1st and the 2nd LED panels, as they apply in equal measure to the specific operations in this claim 3.<br>. . MRL's book titled "MRL Red Original 2.0, MitoPro Series and MitoPro Commerical Series" discusses and shows onboard control panels (left) and Mode light controls: Red/A or NIR/I (left). MRL website (Sept 2023) (2nd from left) explains: LED panels have "*Advanced Digital Control Panel: Control the modes, brightness*, time and Bluetooth connectivity *from the built-in digital control panel*." MRL's website explains "Digital Control Panel with Timer: *All Mito Red Light panels now come standard with advanced digital control panel and built in timer*." MitoAdapt (3rd from left); Mito_Red_and_Pro-XL_Manual_Print_File_1 (right center "A1" display); BOH website Original 2.0, MitoMin and MitoPro (2nd from right); Commercial Premiere (right).<br>.<br> .. .. .. .. .. |

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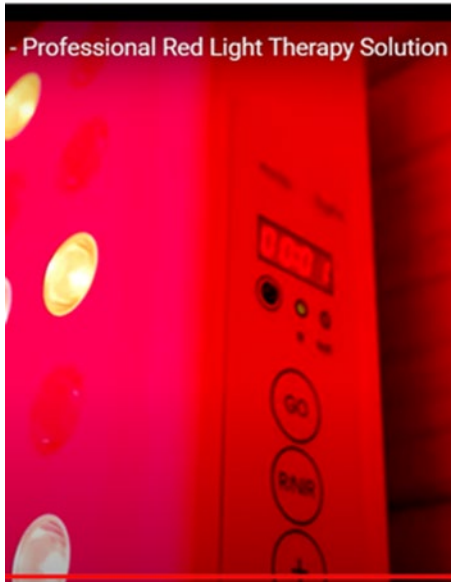
| | Mito Red Room, a custom-build, (MRL website May 2023, taken down) video shows multi-panel control at 0:50/1:01 and uses 2 Pro-Adapt Ultimates with pair of indicator lights, multi-panel Mode panel control at times @ 0:50 and 1:01 (left). The onboard Red Room control shows light mode selection Red/NIR. Red Light Cabin, a built-to-order (MRL website Sept 2023) uses 2 or more Commercial Selects or 2 or more Commercial Premiere, which are not currently available for sale. Mito Red Light Commercial Premiere User Manual © 2020 (obtained Sept 2023) states wavelength light emission range is 630nm to 830nm. The Commercial Premiere control panel (right) shows (i) Red indicator and (ii) NIR indicator on the onboard control panel.<br>.<br>  <br><br>.... <br><br>.<br>.<br>.<br>.<br>. |

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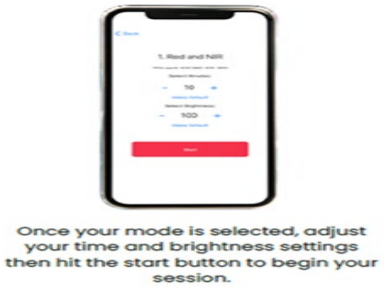
| | The ’719 Patent discusses remote control systems to control the LED panels. “The clinician may communicatively couple a light therapy device 12, or a remote computing device (e.g. a smartphone), located in the clinician's office to one or more light therapy devices 12 located nearby the patient.” 5:64-67. “[T]he plurality of light devices 12 may further be communicatively coupled to a remote computing device operated by a third party. For example, a third-party clinician or technician may communicatively couple their remote computing device to the light therapy system 10 to remotely communicate with the system 10.” 6:39-44. The control panel for the 1st LED/lead panel may be a remote control, either a cell phone or a specially configured remote control.<br>. The accused products, e.g., MitoAdapt, enable cell phone App control or special remote control, both of which are communicatively coupled to the 1st LED housing and the Red/NIR lights in the 1st LED panel. MitoAdapt Bracket Manual (onboard control, left); MitoAdapt User Manual (onboard control, center); MitoAdapt User Manual shows MRL’s Cell Phone App (right) enables Red+NIR/A1; Red/A; and NIR/I Mode control; ON/OFF and Pause controls for the 1st and the follow-on 2nd LED panels. The Phone App is remotely connected to the lead/1st LED panel which controls the follow/2nd panel. The Sept 2023 website explains “Advanced Digital Control Panel: *Control the modes*, brightness, time and Bluetooth connectivity *from the built-in digital control panel. Mobile App Compatible*: Enable Bluetooth on your light and on your mobile device to use the MITO RED LIGHT App.” . Phone APP has touch screen control buttons and indicator lights. MRL Sept 2023 website, “MitoADAPT Series Overview Part 1,” video time @ 2:48 and 3:59 (Mode 1, Red+NIR); Red and NIR input buttons; indicators for Red+NIR/A1, Red/A (time @2:39) and NIR/I/850. App controls 1st panel, 1st panel sends control signal to follow 2nd panel via cable.<br>.<br> .. ..... .....   .<br>. |

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| | MRL's website (Sept 2023) shows the MitoPro and special remote control (left; remote control on right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with *remote control technology. Toggle up or down on the timer, reset unit settings, and operate multiple units with the same remote*."<br>.<br> <br>.....<br>.<br>MRL's accused products, marketing materials and user instructions, shown and described above, have control panels with input buttons which, upon pressing, control various light emissions. The buttons, shown above control, by pressing, (a) treatment time for light emission (buttons: Time, Clock Image, +/- sign, + Clock,– Clock, Time +/-); (b) type of light emitted Red only, NIR only, or Combo (Mode button cycles through Red/A; NIR/I; Red+NIR/A1, list of selectable Red/NIR/Combo light Mode settings on touch screen-centric regional buttons, brightness +/-); (c) commencement of light emission (buttons: OK, Concentric Circle Image, Set, GO, Start touch, ON/OFF); or (d) a pausing of light emission (typically 2nd strike after LIGHT ON Session (buttons: OK, Concentric Circle Image, Set, GO, Pause touch, Pause). Cell Phone touch screen activation occurs by pressing the displayed regional screen command. The "touch" is a "pressing" of the cell phone displayed button-like region.<br>. The claim 3 phrase, "in response to the pressing" is not limited to an initial, first press of a control input button.<br>.<br>.<br>.<br>. |

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| **Claim 4** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 3, further comprising setting a treatment time by pressing a second input button on the control panel of the first light therapy device, wherein the treatment time comprises a duration of time that the first light therapy device and the second light therapy device emit at least one of red light and near infrared light. | The Infringing Instrumentalities include the use an input button to control treatment time. The Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1, 2, and 3 (claim 4 depending from claims 1, 2, and 3), the control panel operations and the input buttons, as they apply in equal measure to the specific treatment time operations in this claim 4.<br><br>MRL's accused products, marketing materials and user instructions, shown and described above, have control panels with an input button which, upon pressing, control treatment time for light emission (buttons: Time, Clock Image, +/- sign, + Clock,– Clock, Time +/-). See images above in connection with claim 3, realleged and incorporated herein by reference thereto.<br><br>Some images above, incorporated herein by reference thereto, show "treatment time" or "treatment time remaining".<br><br>Cell Phone touch screen activation occurs by pressing the displayed regional screen command. The "touch" is a "pressing" of the cell phone displayed button-like region.<br><br>The claim 3 phrase, "in response to the pressing" is not limited to an initial, first press of a control input button. |
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| **Claim 5** | |
| The method of claim 4, further comprising displaying an indication of the treatment time on a first display located on the | The Infringing Instrumentalities include the use of a display showing treatment time. The Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1, 2, 3, and 4 (this claim 5 |

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| control panel of the first light therapy device. | depending from claims 1, 2, 3, and 4), the control panel operations with the displayed treatment time, as they apply in equal measure to the specific treatment time operations in this claim 5.<br>MRL's accused products, marketing materials and user instructions, shown and described above, have control panels which display treatment time for light emission. See images above in connection with claim 3, realleged and incorporated herein by reference thereto.<br><br>Some images above, incorporated herein by reference thereto, show "treatment time" or "treatment time remaining".<br><br>Cell Phone touch screen activation occurs by pressing the displayed regional screen command. The "touch" is a "pressing" of the cell phone displayed button-like region.<br><br>The phrase in claim 3, "in response to the pressing," is not limited to an initial, first press of a control input button.<br><br>The MRL Cell Phone App screen shows treatment time remaining ("minutes remaining"). See Mito Red Light - MitoADAPT Series Overview Part 1, time @ 2:55, at https://www.youtube.com/watch?v=Dm-1D-Rf3eQ&t=6s, Oct. 2023.<br>. |

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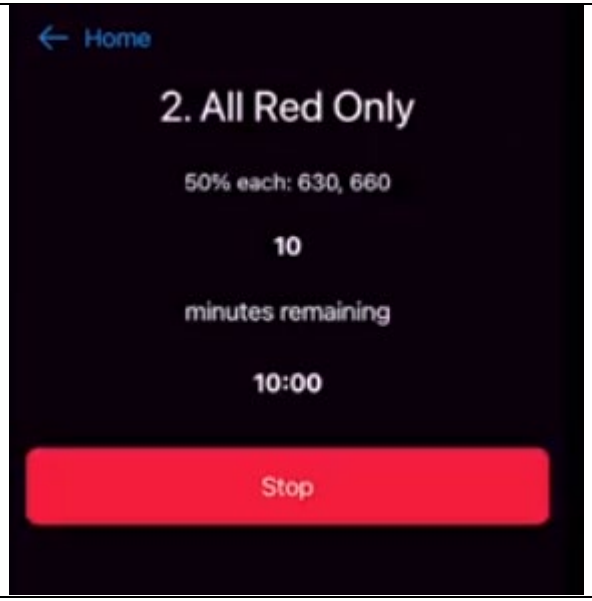
| |  |
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| **Claim 6** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 5, wherein the treatment time is 20 minutes. | The Infringing Instrumentalities include the use of a display showing treatment time, at least up to 20 minutes. The Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1, 2, 3, 4, and 5 (this claim 6 depending from claims 1, 2, 3, 4, and 5), the control panel operations with the displayed treatment time, as they apply in equal measure to the specific treatment time operations in this claim 6.<br>. MRL's accused products, marketing materials and user instructions, shown and described above, have control panels which display treatment time for light emission. See images above in connection with claim 3 and 5, realleged and incorporated herein by reference thereto.<br>. Explaining treatment time for Original 2.0 and MitoPro, pp. 12 (left), 14 (right). The MitoPro XL has same treatment time control as the MitoPro (p. 18) |

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| | .<br>When powered on the timer defaults to 10 minutes.<br>Time - choose up to a 20 minute session. To select a lower time keep pressing TIME and the count will reset after 20 minutes.<br>When pressing the 'time' button the timer will count up to 20 minutes then start over at 1 minute.<br>..<br>.<br>MitoAdapt and MitoPerform enables the user to change Treatment Time by +/- button strike, therefore upon user's control, the display will show a 20 minute treatment time. See MitoAdapt User Manual Updated; see also MitoPerform User Manual and MitoAdapt User Manual V3.<br>.<br>.<br>.<br>.<br>.<br>.<br>. MitoPro Commercial accused product shows treatment time in its display (left). See MitoPro User Manual March01. MRL's Commercial Premiere video (used in Red Cabin) shows treatment time (center). Pro-Adapt Ultimate (used in Red Room video) shows treatment time (right)<br>.<br>. |

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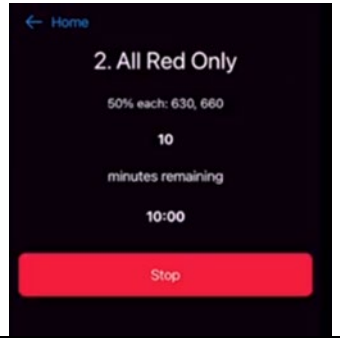
| | <br>.<br>. On MRL's video, the MRL Cell Phone App screen shows treatment time ("minutes remaining"), see Mito Red Light - MitoADAPT Series Overview Part 1, time @ 2:55, at https://www.youtube.com/watch?v=Dm-1D-Rf3eQ&t=6s, Oct. 2023. Treatment time can be 20 minutes.<br>.<br>   |
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| **Claim 7** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 4, further comprising | . The Infringing Instrumentalities include the use of increasing treatment time by pressing a button a second time. The Manuals, promotional videos and social media posts instruct users to configure the |

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| increasing the treatment time by pressing the second input button a second time. | therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1, 2, 3, and 4 (this claim 7 depending from claims 1, 2, 3, and 4), the control panel operations with the displayed treatment time, as they apply in equal measure to the specific treatment time operations in this claim 7.<br>. MRL's accused products, marketing materials and user instructions, shown and described above, have control panels which enable the user to increase treatment time by pressing the button a second time. See images above in connection with claims 1, 2, 3, and 4, realleged and incorporated herein by reference thereto.<br>. Explaining treatment time for Original 2.0 and MitoPro, pp. 12 (left), 14 (right). The MitoPro XL has same treatment time control as the MitoPro (p. 18). Multiple strikes or presses on the input button increases treatment time.<br>.<br>Time - choose up to a 20 minute session. To select a lower time keep pressing TIME and the count will reset after 20 minutes. ... When powered on the timer defaults to 10 minutes. When pressing the 'time' button the timer will count up to 20 minutes then start over at 1 minute. .<br>.<br>. . MitoAdapt and MitoPerform enables the user to change Treatment Time by multiple +/- button strike, therefore upon user's control, the display will show increased minute treatment time. See MitoAdapt User Manual Updated; see also MitoPerform User Manual and MitoAdapt User Manual V3.<br>.<br>.<br>.<br>.<br>MitoPro Commercial accused product shows treatment time in its display (left) and this can be changed by multiple strikes on the input button. See MitoPro User Manual March01. MRL's Commercial Premiere video (used in Red Cabin) shows treatment time (center) with the same user |

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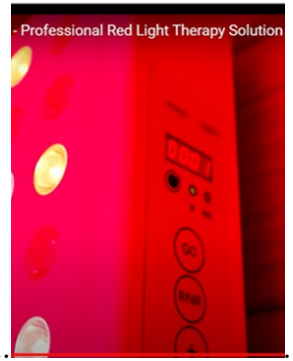
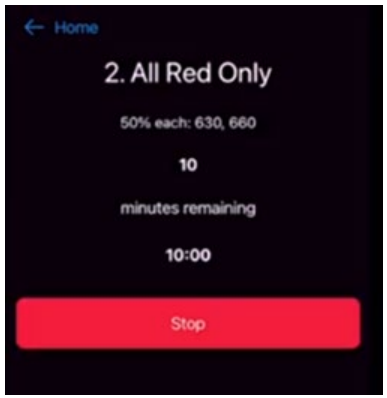
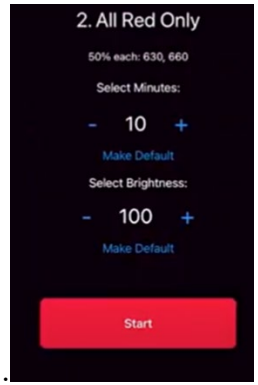
| | increase time control. Pro-Adapt Ultimate (used in Red Room video) shows treatment time (right) with the same user increase time control.<br>.<br> ..  ...<br>On MRL's video, the MRL Cell Phone App screen shows treatment time ("minutes remaining") (left), see Mito Red Light - MitoADAPT Series Overview Part 1, time @ 2:55, at https://www.youtube.com/watch?v=Dm-1D-Rf3eQ&t=6s, Oct. 2023. Treatment time can be 20 minutes. Time is increased striking "+" sign (right).<br>.<br>  .. ...  |
| **Claim 8** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |

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| The method of claim 7, wherein increasing the treatment time comprises increasing the treatment time by the duration of time equal to the treatment time. | The Infringing Instrumentalities include the use of increasing treatment time by pressing a button a second time. Once the MRL is time button is struck or pressed once, the MRL time display shows "1:00" minute, and each subsequent press/strike increments the treatment time by 1 minute (the time duration being "1 minute". The MRL Manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1. Also, MRL offers for sale the accused products configured as multi-panel systems. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1, 2, 3, 4, and 7 (claim 8 depending from claims 1, 2, 3, 4, and 7), the control panel operations with the displayed treatment time, as they apply in equal measure to the specific treatment time operations in this claim 8.<br><br>The time increment is 1-minute units.<br><br>MRL's accused products, marketing materials and user instructions, shown and described above, have control panels which enable the user to increase treatment time in 1-minute increments by pressing the button a second time. See images above in connection with claim 3 4, and 7, realleged and incorporated herein by reference thereto.<br><br>. Explaining treatment time for Original 2.0 and MitoPro, pp. 12 (left), 14 (right). The MitoPro XL has same treatment time control as the MitoPro (p. 18). Multiple strikes or presses on the input button increases treatment time by 1 minute increments.<br>.<br>Time - choose up to a 20 minute session. To select a lower time keep pressing TIME and the count will reset after 20 minutes.<br>When powered on the timer defaults to 10 minutes.<br><br>When pressing the 'time' button the timer will count up to 20 minutes then start over at 1 minute.<br>..<br>.<br>MitoAdapt and MitoPerform enables the user to change Treatment Time by multiple +/- button strike, therefore upon user's control, the display will show increased minute treatment time by 1-minute increments. See MitoAdapt User Manual Updated; see also MitoPerform User Manual and MitoAdapt User Manual V3. |

MitoPro Commercial accused product shows treatment time in its display (left) and this can be changed by multiple strikes on the input button by 1 minute increments. See MitoPro User Manual March01. MRL's Commercial Premiere video (used in Red Cabin) shows treatment time (center) with the same user increase time control. Pro-Adapt Ultimate (used in Red Room video) shows treatment time (right) with the same user increase time control.

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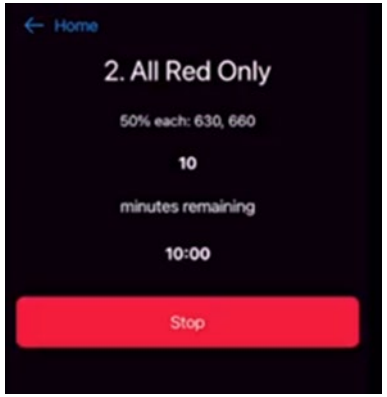
On MRL's video, the MRL Cell Phone App screen shows treatment time ("minutes remaining") (left), see Mito Red Light - MitoADAPT Series Overview Part 1, time @ 2:55, at https://www.youtube.com/watch?v=Dm-1D-Rf3eQ&t=6s, Oct. 2023. Treatment time can be 20 minutes. Time is increased striking "+" sign (right) by 1 minute increments.



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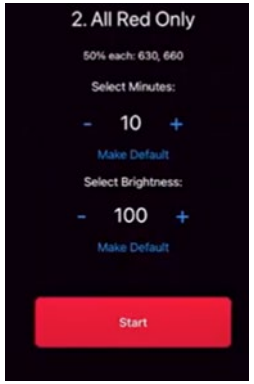

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| **Claim 9** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 2, further comprising pausing the emitting in response to pressing a first input button on the control panel of the first light therapy device. | The Infringing Instrumentalities include the use of a 1st and a 2nd light therapy device (LED panel), both configured with input button to control light, including a PAUSE/Temporary OFF control, in response to pressing the button, which MRL identifies as buttons: OK, Concentric Circle Image, Set, GO, Start/Pause (touch screen), ON/OFF. Reference to this PAUSE control in connection with this claim 9 will be referred to as the "ON/OFF/Pause" control, notwithstanding that pressing the button will cause a temporary OFF or Pause condition in the panel's light emission. All MRL LED panels have an ON/OFF button also controlling emission. The Manuals, promotional videos and social media posts instruct users to configure and use the therapy systems using 2 LED panels emitting Red + NIR light as shown above in connection with claim 1 and as discussed above in connection with the onboard control panel and the Cell Phone App and MRL remote control. MRL offers for sale the accused products configured as multi-panel systems with these types of ON/OFF/Pause input buttons and instructs users as to the operations of MRL's LED panels. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1 and 2 (claim 9 depending from claims 1 and 2), the control panel operations of the 1st and the 2nd LED panels, as they apply in equal measure to the specific operations in this claim 9.<br><br>In claims 1 and 2 and 3, the description of the control panel is identical to the control panel referred to in this claim 9. Joovv repeats and realleges the allegations in the infringement contentions associated with claims 1 and 2 and 3 above as they apply in equal measure to claim 9. Control panel images in claims 1 and 2 and 3 are incorporated herein by reference thereto.<br>MRL's booklet titled "MRL Red Original 2.0, MitoPro Series and MitoPro Commerical Series" separately discusses (a) Original 2.0, (b) MitoPro, and (c) MitoPro Commercial, and shows onboard control panels (above, claims 1 and 2 and 3) and ON/OFF/Pause light emission controls (above). MRL website (Sept 2023) (above) explains: LED panels have "*Advanced Digital Control Panel: Control the modes, brightness*, time and Bluetooth connectivity *from the built-in digital control panel*." MRL's website explains "Digital Control Panel with Timer: *All Mito Red Light panels now come standard with advanced digital control panel and built in timer*." MitoAdapt (above); Mito_Red_and_Pro-XL_Manual_Print_File_1 (above); BOH website Original 2.0, MitoMin and MitoPro (above); Commercial Premiere (above).<br>. |

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| | Mito Red Room, a custom-build, (MRL website May 2023, taken down) video shows multi-panel control at 0:50/1:01 and uses 2 Pro-Adapt Ultimates with pair of indicator lights and ON/OFF/Pause control, and multi-panel Mode panel control at times @ 0:50 and 1:01 (above). The onboard Red Room control shows light mode selection Red/NIR and ON/OFF/Pause control. Red Light Cabin, a built-to-order (MRL website Sept 2023) uses 2 or more Commercial Selects or 2 or more Commercial Premiere, which are not currently available for sale. Mito Red Light Commercial Premiere User Manual © 2020 (obtained Sept 2023) control panel (above) shows (i) Red indicator and (ii) NIR indicator on the onboard control panel and (iii) ON/OFF/Pause control.<br><br>The accused products, e.g., MitoAdapt, enable Cell Phone App control or special remote control, both of which are communicatively coupled to the 1st LED housing and the Red/NIR lights in the 1st LED panel and have ON/OFF/Pause controls. MitoAdapt Bracket Manual (above); MitoAdapt User Manual (above); MitoAdapt User Manual shows MRL's Cell Phone App (above) enables Red+NIR/A1; Red/A; and NIR/I Mode control; ON/OFF/Pause controls for the 1st and the follow-on 2nd LED panels. The Phone App is remotely connected to the lead/1st LED panel which controls the follow/2nd panel with ON/OFF/Pause controls. The Sept 2023 website explains "Advanced Digital Control Panel: *Control the modes*, brightness, time and Bluetooth connectivity *from the built-in digital control panel. Mobile App Compatible*:" Phone APP has touch screen control buttons and indicator lights and ON/OFF/Pause controls. MRL Sept 2023 website, "MitoADAPT Series Overview Part 1," video time @ 2:48 and 3:59 (Mode 1, Red+NIR); Red and NIR input buttons; indicators for Red+NIR/A1, Red/A (time @2:39) and NIR/I/850. App controls 1st panel, 1st panel sends control signal to follow 2nd panel via cable.<br><br>MRL's website (Sept 2023) shows that the MitoPro and special remote control (left; remote control on right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with *remote control technology. Toggle up or down on the timer, reset unit settings, and operate multiple units with the same remote*." The MRL remote has an ON/OFF/Pause control input button.<br><br>MRL's accused products, marketing materials and user instructions, shown and described above, have control panels with input buttons which, upon pressing, control various light emissions, including, but not limited to ON/OFF/Pause control button. The buttons, shown above control, by pressing, (a) treatment time for light emission (buttons: Time, Clock Image, +/- sign, + Clock,– |

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| | Clock, Time +/-); (b) type of light emitted Red only, NIR only, or Combo (Mode button cycles through Red/A; NIR/I; Red+NIR/A1, list of selectable Red/NIR/Combo light Mode settings on touch screen-centric regional buttons, brightness +/-); (c) commencement of light emission (buttons: OK, Concentric Circle Image, Set, GO, Start touch, ON/OFF); or (d) a pausing of light emission (typically 2nd strike after LIGHT ON Session (buttons: OK, Concentric Circle Image, Set, GO, Pause touch, Pause). Cell Phone touch screen activation occurs by pressing the displayed regional screen command. The "touch" is a "pressing" of the cell phone displayed button-like region.<br><br>The claim 9 phrase, "in response to the pressing" is not limited to an initial, first press of a control input button. |
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| **Claim 10** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 1, further comprising:<br>selecting the lead mode via a first switch coupled to the first light therapy device,<br><br>wherein the first light therapy device is placed in the lead mode via the first switch; and<br><br>selecting the follow mode via a second switch coupled to the second light therapy device,<br><br>wherein the second light therapy device is placed in the follow mode via the second switch. | The Infringing Instrumentalities include a 1st LED light therapy device panel configured to operate in a lead or follow mode, with a switch designed to select between lead and follow mode. The Manuals, promotional videos and social media posts instruct users to configure and use the therapy systems using 2 LED panels and configure them in a lead or follow mode via a respective switch on each LED panel. The switch may be a toggle ('495 @ 7:59), button (Fig. 9, 8:41, and 9:19 and 10:11, see also FWH OA 12/6/2019 pg. 4, see button switch in ref Adam '199, control button 106 ¶035) or software switch (Fig. 9). As described and illustrated later, MRL accused products can be operationally coupled together, as marketed by MRL and as MRL instructs its users, such that a 1st/lead LED panel controls a 2nd/follow" LED panel such that both panels go ON/OFF simultaneously. The MRL switch is embodied in a software-enabled control element on an onboard printed circuit board (PCB) in the LED panel housing or a signal conditioning module in the LED panel sensing when an input signal is detected from the linking comm control cable attached to the input (IN) port on the sub/ss:ss/follow 2nd LED panel. The lead/primary/main 1st LED panel has the comm control cable from its OUT port which runs to the 2nd/follew LED panel's IN port. Another possible sensory "switch" control at the IN port of the sub/ss:ss/follow 2nd LED panel is a mechanical sensor which senses the presence of the digital linking comm control cable pin when inserted into the IN port. Discovery is needed from MRL on this switch sensing of the sub/ss:ss/follow control. Alternatively, the onboard control panel of the 2nd LED can be set by a switch as the "mode" control to set the 2nd LED panel to sub/ss:ss/follow mode. The Infringing Instrumentalities include a plurality of LED lights (on the 1st LED panel) which panel is communicatively coupled to the 2nd LED panel as shown below. See User Manual Mar01 (left): The linking comm control cable permits the |

master/main/lead LED panel to control light output of the sub/ss:ss/follow 2nd panel. MitoPro User Manual March01 shows MitoPro and MRL Red Original 2.0 comm control cable. Onboard control panel shown (right). The “mode” button switch selects light control.

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**MitoPRO Series**

**Connecting two devices (electronically)**
Locate the linking and jumper power cables.

Start by plugging your master (main control) panel directly into wall power using the provided power cord.

Then using the jumper power cable connect the master panel to your second or "SUB" panel, continue this connection with additional panels.

Next using the linking cable go from the "Output" port of the primary light to the "Input" port of the secondary light. To connect additional lights, simply connect another cable from the Output port of the 2nd light to Input port of the 3rd light (and so on with a max of 4 lights).

All lights that have the Input port occupied will read "SUB" on the control screen and will therefore be controlled by the Primary light. To operate any light individually simply unplug the linking cable from the Input port.

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In the Mito Red Light Stand Assembly and MitoPRO Array Setup (see digital linking comm control cables, left) at https://youtu.be/XCAzpLFrhhg, the (right) (time @ 2:47), the LED panel array is a 4-panel system.

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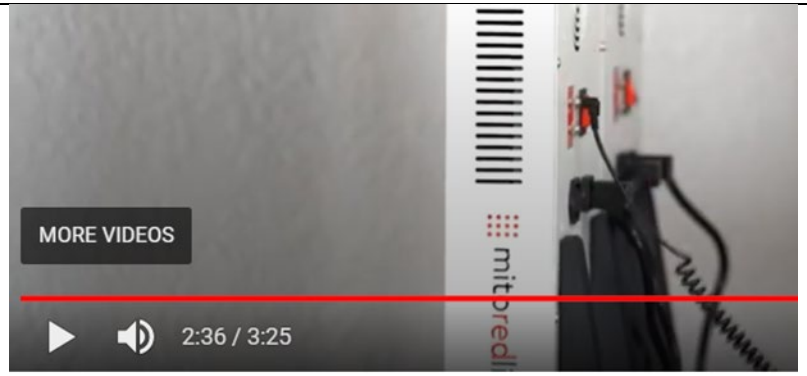
| |   ... <br>.<br>MitoAdapt Manual V3 pg. 14. The curly digital “linking” comm control cable is the “signal” or control cable from the “main” or lead 1st LED panel that controls the sub/ss:ss/follow 2nd LED panel. The switch is either software or mechanical or the Mode control on the LED panel. See sub/ss:ss in Mitoadapt-quick-guide-edited-04-21, pg. 4, below.<br>. |

Connect the linking cable from the port marked 'OUT' on your main panel and connect to the port marked 'IN' on the second panel. Repeat this process for additional panels.

When connected together properly the main control panel's screen should display the session time, mode selected, and brightness. The other panels should display "ss:ss"

Use the signal cable to connect each panel. Select which of your panels will be the main panel that controls the others.

Place one end of the cable in the port marked 'OUT' on the main panel and put the other end in the 'IN' port. If you have multiply panels continue this process.

This may sound tricky, so check out the main user manual if you

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The following images show MitoAdapt products. The MRL website (Sept 2023) explains that the LED panels have "ADVANCED DIGITAL CONTROL PANEL: *Control the modes*, brightness, time and Bluetooth connectivity from the built in digital control panel." See below.

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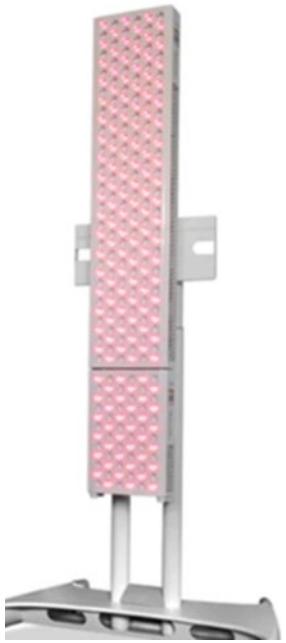
| | ..  .. .. <br>.<br>. MRL's website explains "DIGITAL CONTROL PANEL WITH TIMER: *All Mito Red Light panels now come standard with advanced digital control panel and built in timer*." See also MRL_Mito_Red_and_Pro-XL_Manual_Print_File_1. This digital control panel has a switch for Lead/Follow control.<br>.<br>MRL video "Mito Red Light Stand Assembly and MitoPRO Array Setup" Nov 11, 2021, shows small Original 2.0, or MitoPro 300 or MitoAdapt Min LED panel and larger LED panel connected together by brackets. The video (https://youtu.be/XCAzpLFrhhg) shows removal of legs from small panel. Time @ 2:00 see lateral bracket and longitudinal bracket; time @ 2:36 attach digital control cable panel 1 (OUT) to panel 2 (IN); panel 2 (OUT) to panel 3 (IN), etc. Time @ 3:06 "if set up correctly the *master control panel will control the rest of the lights. The other lights will be in sub or* |

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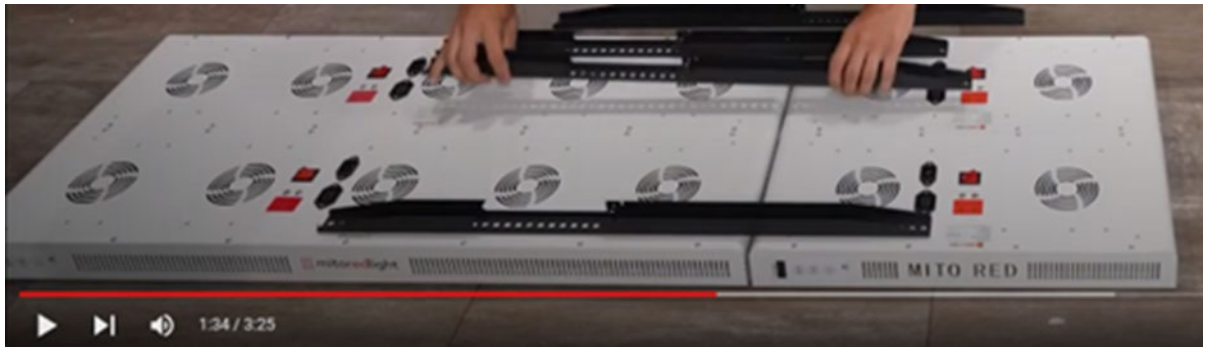
| | *follower mode* for additional guidance please reference the user manual." See small LED panel: time @1:17; time @ 1:27-29 remove legs; time @1:34 large and small LED panels bracketed together.<br>.<br> ... .. .<br>.<br>  <br><br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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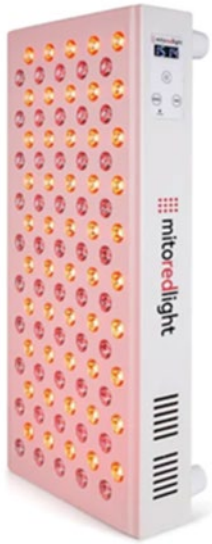
| | The BenefitsofHeatandLight website (https://benefitsofheatandlight.com/red-light-therapy-devices/) (taken down) show MRL User Manuals and Video Tutorials for Mito Red Original 2.0 Series; MitoAdapt User Manual V3, pg. 25; and MitoPro User Manual March01 (describes MitoMIN, MitoMID, MitoMAX, MitoMEGA, MitoPRO Mega, MitoPRO Elite, MitoPRO Ultimate, MitoPRO 300, 750 and 1500) pg. 21, and 24-26, among others. MRL onboard control panel (left) with Mode control button/switch, NIR ON indicator light, and countdown timer for Red/NIR emission. Legs (center) on small LED panel and MitoMin (right). Multi-panel systems would use the MRL comm control cable for panel-to-panel lead/follow configuration and coordinated operations.<br>.<br> ...  .. .<br>.<br>.<br>.<br>.<br>.<br>.<br>..<br>. |

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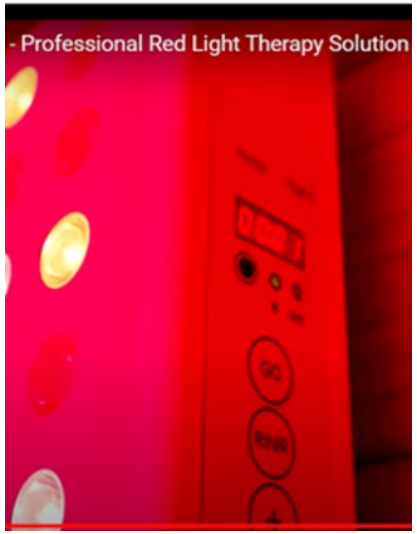
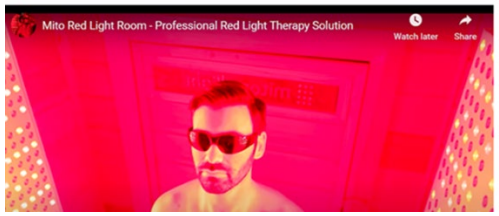
| | Mito Red Room video (MRL website May 2023, taken down Sept 2023, ECF 1-10, etc.) uses two MitoPro/MitoAdapt Ultimates (center). Multi-panel Mode control: times @ 0:50 and 1:01. For coordinated operation, both LED panels can be wired together with the linking comm control signal cable. MRL website indicates that the MRL Red Room is a custom product, therefore multiple LED panels can be placed together as shown in the MitoAdapt side-by-side configuration above. The onboard Red Room control (left) shows mode selection as the "main," "primary" or "lead" LED panel (in the claim, the 1st panel). Switch is effected for lead/follow by the linking comm control signal cable.<br>.<br>  …  … <br>.<br>Red Light Cabin, built-to-order (MRL website Sept 2023) uses 2 MRL Commercial Select or MRL Commercial Premiere, not available for sale. Commercial Premiere image (below) shows Red/NIR and Mode controls. For coordinated operation, both LED panels can be wired together with the linking comm control signal cable. Discovery is needed for MitoPERFORM Series; MitoMOD Series; MRL Mega, Elite, and Ultimate LED panels; Commercial Select; Commercial Premiere; Red Room; and Red Light Cabin accused products.<br>.<br>. |

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| | MitoMOD Series (gimmethegoodstuff.org, May 2023, taken down) shows side-by-side LED panels. The MRL website, “Reviews”: states “You can connect them together” indicating multi-panel systems” (Feb. 12_22, below, taken down). The MitoMod can be a 4 LED panel system (below) or a 2 LED panel system with 300 + 900 MitoMOD panels (see text below), the sub/ss:ss/follow panel senses the comm control signal at its IN port, and the main/primary/lead sends the control signal from its OUT port to the 2nd panel IN port via the linking comm control cable.<br>.<br> <br>★★★★★ February 12, 2022 at 12:05 AM<br>**MitoMod 300 and 900**<br>" the items are awesome, I love the fact that you can connect them together (one to the other without needing anything else). Having said that, currently, I have them separate, so others can ... .<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>. |

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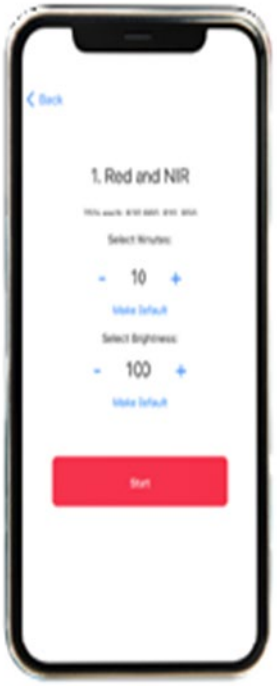
| | MitoAdapt Bracket Manual (left image); MitoAdapt User Manual (center image); MitoAdapt User Manual shows MRL's Cell Phone App (right image) and the Mode control to set the 1st LED panel as the primary/lead panel and also shows how to configure the 2nd LED panel in a sub/ss:ss/follow mode. Panels are communicatively coupled together as shown above. The cell phone App provides the ON/OFF and Red/NIR controls for the 1st and 2nd LED panels which are connected via the digital comm control linking cable.<br>.<br> <br><br>.....<br> <br><br> <br><br>.....<br>  <br><br>Once your mode is selected, adjust your time and brightness settings then hit the start button to begin your session.<br>. |

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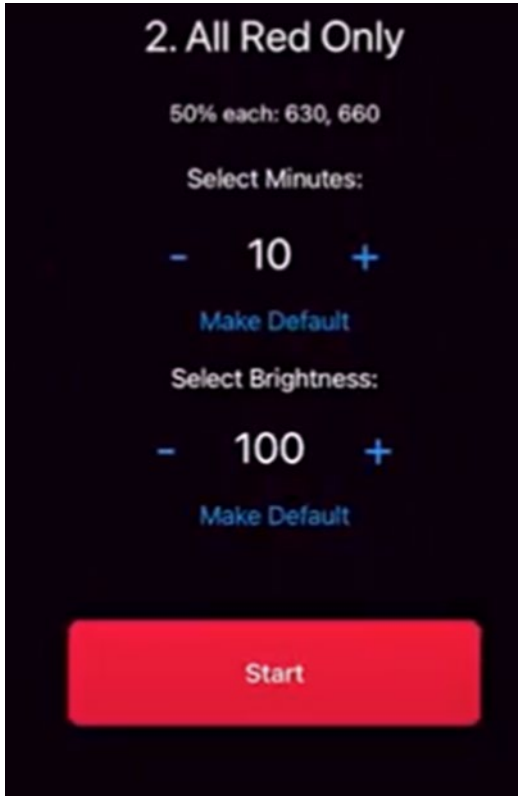
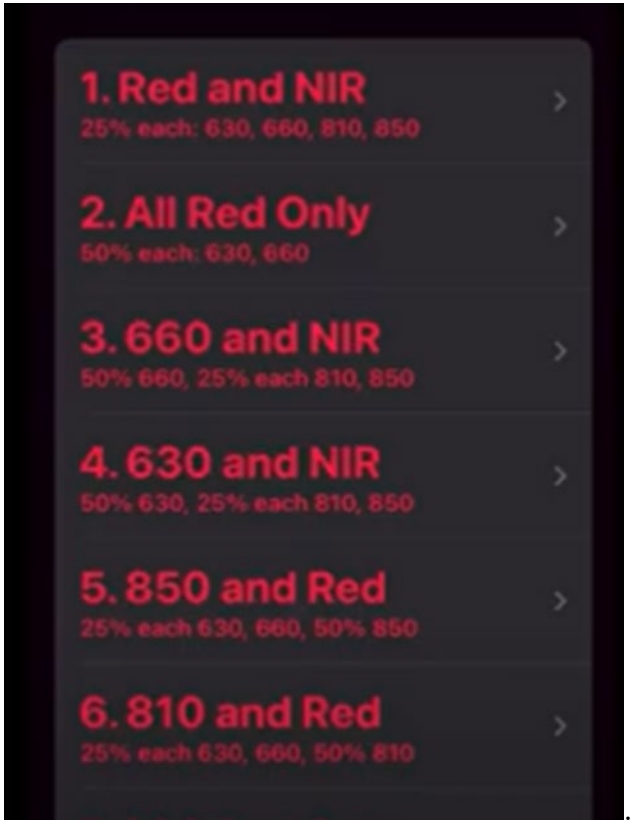
| | Phone APP shows touch screen control buttons and indicator lights. MRL website, “MitoADAPT Series Overview Part 1,” time @ 2:48 and 3:59 (left image, MODE 1, Red+NIR); Red and NIR screen inputs + indicators for Red + NIR , Red Only (right image time @2:39) and video shows NIR “850 Only”. The APP controls the lead 1st panel and the 1st panel sends a control signal to the sub/ss:ss/follow 2nd panel via the linking comm control cable.<br>.<br>  <br><br>…  <br>.<br>.<br>.<br>..<br>.<br>. |

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| | MRL's website (Sept 2023) shows that the MitoPro (left image) can be controlled by a remote control (detailed on the right). MRL's website (Sept 2023) states that the MitoPro has "Award winning quad wavelength design updated with remote control technology. Toggle up or down on the timer, reset unit settings, and *operate multiple units with the same remote.*"<br>.<br> <br><br>..... .<br>.<br>"The MitoRedLight app is the remote control for your Mito Red Light Adapt device! Through the app, you connect to your MitoAdapt device, select the channel, set the time duration, and start your therapy session." See MRL website, Sept 2023 and see Apple AppStore Sept 2023. As noted above, the panel-to-panel connection for MitoAdapt LED panels is established by the linking digital control cable. MRL's "User Manual Mito Red Original 2.0 Series and MitoPRO Series" shows a digital linking comm control cable for two LED panel control (cable at OUT port defines primary/lead LED panel and cable at IN port defines the sub/ss:ss/follow LED panel). The MitoPro Manual (Sept 2023) does not discuss any different operational controls for the MitoPro remote as compared to the MitoAdapt Cell Phone App. Therefore, the MitoPro LED panels are communicatively coupled together via the digital linking cable when these panels are subject to the MitoPro Remote Control. |
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| **Claim 11** | Joovv asserts infringement of this dependent claim and the underlying claims. |
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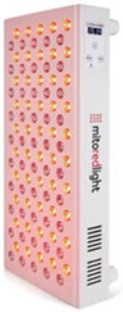
| The method of claim 1, further comprising indicating, via a first pair of indication lights on the first light therapy device, whether at least one of red light and near infrared light is being emitted from at least the portion of the first plurality of lights. | The Infringing Instrumentalities include the use of a 1st and a 2nd LED panels, both with control panels, having indication lights or displays for Red/A or NIR/I indication. The Manuals, promotional videos and social media posts instruct users to configure and use the therapy systems using 2 LED panels emitting Red/A or NIR/I light and indication lights either independent or as a display A=Red or I=NIR on the onboard control panel. This claim 11 requires that the pair of indicator lights be active on the 1st LED panel, bearing the 1st plurality of lights.<br><br>MRL's booklet titled "MRL Red Original 2.0, MitoPro Series and MitoPro Commercial Series" separately discusses Original 2.0, MitoPro and MitoPro Commercial and shows onboard control panels (left) and Mode indicator lights: Red/A or NIR/I (left). MRL website (Sept 2023) (2nd from left) explains: LED panels have "*Advanced Digital Control Panel: Control the modes, brightness*, time and Bluetooth connectivity *from the built-in digital control panel*." MRL's website explains "Digital Control Panel with Timer: *All Mito Red Light panels now come standard with advanced digital control panel and built in timer*." MitoAdapt (3rd from left); Mito_Red_and_Pro-XL_Manual_Print_File_1 (right center "A1" display); BOH website Original 2.0, MitoMin and MitoPro (2nd from right); Commercial Premiere (right).<br>.<br> .. .. .. ..  .. .<br>.<br>.<br>.<br>.<br>. |

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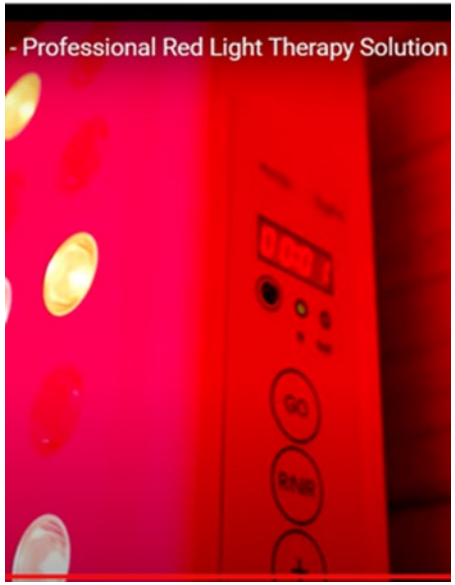
| | Mito Red Room, a custom-build, (MRL website May 2023, taken down) video shows multi-panel control at 0:50/1:01 and uses 2 Pro-Adapt Ultimates with pair of indicator lights (either independent or as a display A=Red or I=NIR) on the onboard control panel and multi-panel Mode panel control at times @ 0:50 and 1:01 (left). The onboard Red Room control shows light mode selection Red/NIR. Red Light Cabin, a built-to-order (MRL website Sept 2023) uses 2 or more Commercial Selects or 2 or more Commercial Premiere, which are not currently available for sale. Mito Red Light Commercial Premiere User Manual © 2020 (obtained Sept 2023) states wavelength light emission range is 630nm to 830nm. The Commercial Premiere control panel (right) shows (i) Red indicator and (ii) NIR indicator on the onboard control panel.<br>.<br>  <br><br>..... <br><br>.<br>.<br>.<br>. |

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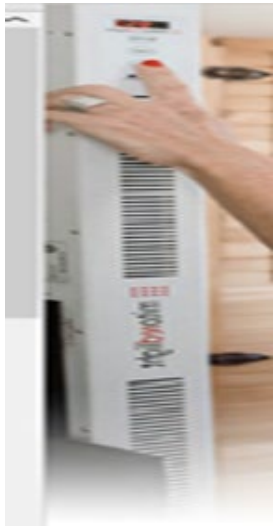
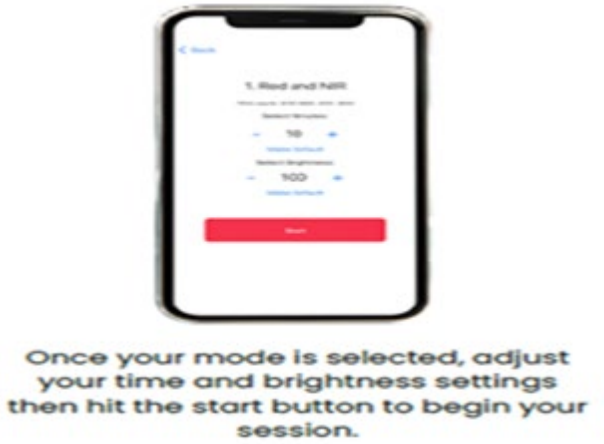
| | The accused products, e.g., MitoAdapt, enable cell phone App control or special remote control, both of which are communicatively coupled to the 1st LED housing and the Red/NIR lights in the 1st LED panel. MitoAdapt Bracket Manual (onboard control, left); MitoAdapt User Manual (onboard control, center); MitoAdapt User Manual shows MRL's Cell Phone App (right) enables Red/A; and NIR/I Mode control (indicators either independent or as a display A=Red or I=NIR); ON/OFF etc. for the 1st and the follow-on 2nd LED panels. The Phone App is remotely connected to the lead/1st LED panel which controls the follow/2nd panel. The Sept 2023 website explains "Advanced Digital Control Panel: *Control the modes*, brightness, time and Bluetooth connectivity *from the built-in digital control panel. Mobile App Compatible*: Enable Bluetooth on your light and on your mobile device to use the MITO RED LIGHT App." Phone APP has touch screen control buttons and indicator lights (display shows user A=Red or I=NIR indicators). MRL Sept 2023 website, "MitoADAPT Series Overview Part 1," video time @ 2:48 and 3:59 (Mode 1, Red+NIR); Red and NIR input buttons; indicators for Red/A (time @2:39) and NIR/I/850. App controls 1st panel, 1st panel sends control signal to follow 2nd panel via cable.<br>.<br>  .. .....  |
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| **Claim 12** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 11, further comprising indicating, via a second pair of indication lights on the second light therapy device, whether at least one of red light and near infrared light is being emitted from at least the portion of the second plurality of lights. | In claim 11 above, the description of the control panel and the indicator lights (either an independent control panel light or as a display A=Red or I=NIR) on the onboard control panel is identical to the recitation in this claim 12. The difference between claim 11 and 12 is that claim 11 has a pair of indicator lights on the 1st LED panel for the 1st plurality of therapy lights whereas claim 12 requires that the 2nd panel have a pair of indicator lights for the 2nd plurality of lights. Since all MRL panels are the same, that is, the 1st panel is identical or similar to the 2nd panel (other than size and number of lights), Joovv repeats and realleges the allegations in the infringement contentions associated with Claim 11 above as they apply in equal measure to Claim 12.<br><br>Since all MRL multi-panel systems and all MRL LED panel have indicator lights (either an independent control panel light or as a display A=Red or I=NIR) on the onboard control panel as discussed in claim 11 above, MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels with the pair of indicator lights in an infringing manner and further MRL offers to sell these same infringing accused products. |
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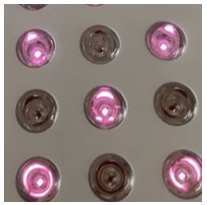
| **Claim 13** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 1, wherein emitting at least one of red light and near infrared light from at least the portion of the first plurality of lights and at least the portion of the second plurality of lights comprises:<br>emitting red light from at least the portion of the first plurality of lights; and | To establish infringement, claim 13 requires that the 1st and the 2nd LED panel each emit Red light from a portion of their respective plurality of lights carried by the panel. See below Red only (left) and NIR only (right). Each MRL LED panel is identical or similar in this respect.<br>.<br> .....  <br>. |

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| emitting red light from at least the portion of the second plurality of lights. | In claim 1 above, the lead/follow operation is discussed as well as the Red/NIR light Mode control. The difference between claim 1 and 13 is that claim 1 requires "at least one of" the Red or NIR lights to be ON and under coordinated control and claim 13 requires Red light emission from both LED panels. Since all MRL panels are the same, that is, the 1st panel is identical or similar to the 2nd panel (other than size and number of lights), Joovv repeats and realleges the allegations in the infringement contentions associated with Claim 1 above as they apply in equal measure to Claim 13.<br>Since coordinated panel control for Red (as compared to at least one of Red or NIR) is discussed in claim 1 above, MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels with coordinated panel control for Red in an infringing manner (an infringement) and further MRL offers to sell these infringing accused products. |
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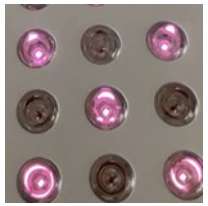
| **Claim 14** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 1, wherein emitting at least one of red light and near infrared light from at least the portion of the first plurality of lights and at least the portion of the second plurality of lights comprises: emitting near infrared light from at least the portion of the first plurality of lights; and emitting near infrared light from at least the portion of the second plurality of lights. | To establish infringement, claim 13 requires that the 1st and the 2nd LED panel each emit NIR light from a portion of their respective plurality of lights carried by the panel. See below Red only (left) and NIR only (right). Each MRL LED panel is identical or similar in this respect.<br>**.**<br> **...**  <br>**.**<br>In claim 1 above, the lead/follow operation is discussed as well as the Red/NIR light Mode control. The difference between claim 1 and 14 is that claim 1 requires "at least one of" the Red or NIR lights to be ON and under coordinated control and claim 14 requires NIR light emission from both LED panels. Since all MRL panels are the same, that is, the 1st panel is identical or similar to the 2nd panel (other than size and number of lights), Joovv repeats and realleges the allegations in the infringement contentions associated with Claim 1 above as they apply in equal measure to Claim 14. |

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| | . Since coordinated panel control for NIR (as compared to at least one of Red or NIR) is discussed in claim 1 above, MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels with coordinated panel control for NIR in an infringing manner (an infringement) and further MRL offers to sell these infringing accused products. |
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| **Claim 15** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 1, wherein emitting at least one of red light and near infrared light from at least a portion of the first plurality of lights and at least a portion of the second plurality of lights comprises:<br>emitting red light from at least the portion of the first plurality of lights; and<br>emitting near infrared light from the portion of the second plurality of lights. | To establish infringement in this claim 15, one LED panel must emit Red/A and the other LED panel must emit NIR/I. This is an uncoordinated operation of the 1st LED (which, as an example, emits Red/A light) compared to the 2nd LED which emits NIR/I light.<br><br>Claim 1, from which claim 15 depends recites coordinated operation of the 1st and 2nd LED panels. Once the user, following MRL's instructions, videos, manuals, marketing materials and advertisements has configured, for example, the 1st LED panel as a lead LED panel and the 2nd LED panel as the follow panel, the user may reconfigure these two or more multi-panel systems for independent panel operation. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 above as they apply in equal measure to claim 15.<br><br>To achieve independent operation after the coordinated panel-to-panel system described in claim 1 above, the user, following MRL's instructions, removes or unplugs the comm control cable from one or the other of the 1st panel's OUT port or the 2nd panel's IN port. The removal of the comm control cable permits independent operation of the 1st LED panel.<br><br>Thereafter, 1st LED, which, as an example, emits Red/A light, is independently operable and in an uncoordinated control manner compared to the 2nd LED which emits NIR/I light.<br><br>In some instances, in the multi-panel accused product systems, the user may be required to cycle the power line to the panel Off then ON. This additional power cycling step does not avoid infringement. |

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| | MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels in an uncoordinated control manner (Red from 1st panel; NIR from 2nd panel) by removing the comm control cable, after establishing a coordinated panel control system in a coordinated control manner, and this is an infringement and further MRL offers to sell these infringing accused products in such uncoordinated control manner. .<br>.<br>.<br>. |
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| **Claim 16** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 1, wherein communicatively coupling the first light therapy device directly to the second light therapy device comprises coupling the first light therapy device and the second light therapy device via a wired connection. | Claim 16 requires that, for coordinated panel-to-panel light emission control, the communicative coupling between the 1st LED panel and the 2nd LED panel is a wired connection.<br><br>The analysis of claim 1 above, from which claim 16 depends, explains and illustrates that for coordinated panel-to-panel light emission control, a comm control cable is used. One end of the comm control cable is plugged into the 1st /lead LED panel's OUT port and the other end of the comm control cable is plugged into the 2nd /follow LED panel's IN port. The comm control cable is the wired connection. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 above as they apply in equal measure to claim 16.<br><br>MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels, communicatively coupled together by the comm control cable and this is an infringement of claim 16 and further MRL offers to sell these infringing accused products in such comm control cabled together manner. |
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| **Claim 17** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 16, wherein coupling the first light therapy device and the second light therapy device via the wired connection comprises: | Claim 17 requires that, for coordinated panel-to-panel light emission control, the communicative coupling between the 1st LED panel and the 2nd LED panel is a wired connection, that is, the comm control cable connection, and that the first end of the comm control cable is inserted in to the 1st LED OUT comm port and the other end of the comm control cable be inserted in the 2nd LED's IN comm port. |

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| inserting a first end of a communication cable into a first communication port on the first light therapy device; and<br>inserting a second end of the communication cable into a second communication port on the second light therapy device. | The analysis of claim 1 above, from which claims 16 and 17 depends, explains and illustrates that for coordinated panel-to-panel light emission control, a comm control cable is used. One end of the comm control cable is plugged into the 1st /lead LED panel's OUT port and the other end of the comm control cable is plugged into the 2nd /follow LED panel's IN port. The comm control cable is the wired connection. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 and 16 above as they apply in equal measure to claim 17.<br><br>MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 2 LED panels, communicatively coupled together by the comm control cable, having one cable end inserted into the lead LED's OUT comm port and the other cable end inserted on the follow LED's IN comm port, and this is an infringement of claim 17 and further MRL offers to sell these infringing accused products in such comm control cabled together manner. |
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| **Claim 18** | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
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| **Claim 19** | Joovv asserts infringement of this dependent claim and the underlying claims. |
| The method of claim 1, further comprising:<br>providing a third light therapy device comprising a third housing and a third plurality of lights configured to emit at least one of red light and near infrared light;<br><br>providing a fourth light therapy device comprising a fourth housing and a fourth plurality of lights configured to emit at least | Claim 19 requires a 3rd LED light therapy panel, emitting at least one of Red/A or NIR/I light, and a 4th LED light therapy panel, emitting at least one of Red/A or NIR/I light. Further, claim 19 requires that the 3rd and 4th LED panel be communicatively coupled directly to at least one of the 1st or the 2nd LED panel for coordinated Red/NIR light emission.<br><br>The analysis of claim 1 above, from which claim 19 depends, explains and illustrates that for coordinated panel-to-panel light emission control, a comm control cable is used between the 1st /lead LED panel and the 2nd /follow LED panel. One end of the comm control cable is plugged into the 1st /lead LED panel's OUT port and the other end of the comm control cable is plugged into the 2nd /follow LED panel's IN port. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 above as they apply in equal measure to claim 19.<br><br>It is a simple matter to supplement the 2-panel LED system in claim 1 and add a 3rd LED panel and a 4th LED panel, thereby creating a 4-panel system. Claim 1 explains and illustrates the common lead/follow coordinated control system for a 2-panel system. The 4-panel system of this claim 19 |

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| one of red light and near infrared light;<br>communicatively coupling each of the third light therapy device and the fourth light therapy device directly to at least one of the first light therapy device and the second light therapy device; and<br>emitting at least one of red light and near infrared light from at least a portion of the third plurality of lights and at least a portion of the fourth plurality of lights. | follows the instructions set forth above in claim 1. Claim 1 also shows a number of 4-panel systems advertised and highlighted by MRL. In one 4-panel system, the 1st /lead LED panel has a 1st comm control cable at its OUT port and the 2nd /follow LED panel has the 1st control cable at its IN port. The 2nd LED panel acts as the leader for the 3rd LED when: a 2nd comm control cable is in the 2nd LED panel's OUT port and the 2nd control cable is in the 3rd /follow LED panel's IN port. The 3rd LED panel acts as the leader for the 4th LED when: a 3rd comm control cable is in the 3rd LED panel's OUT port and the 3rd control cable is in the 4th /follow LED panel's IN port. The 4-panel coordinated control is thereby established by the 1st/lead LED panel controlling in a coordinated manner the 2nd, 3rd and 4th LED panel light emissions. The 1st/lead LED panel can control all 4 panels to emit either Red/A or NIR/I light.<br><br>MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 4 LED panels, communicatively coupled them together with 3 comm control cables and this is an infringement of claim 19 and further MRL offers to sell these infringing accused products in such comm control cabled together manner. |
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| Claim 20 | Joovv DOES NOT assert infringement of this claim at this time but reserves its rights pursuant to USDC ND Ill Local Patent Rules to assert the same based upon facts and information gathered during discovery. |
| The method of claim 19, further comprising:<br>providing a fifth light therapy device comprising<br><br>a fifth housing and a fifth plurality of lights configured to emit<br>at least one of red light and near infrared light;<br><br>providing a sixth light therapy device comprising a | Claim 20 requires a 5th LED light therapy panel, emitting at least one of Red/A or NIR/I light, and a 6th LED light therapy panel, emitting at least one of Red/A or NIR/I light. Further, claim 19 requires that the 5th and 6th LED panel be communicatively coupled directly to at least one of the 1st or the 2nd or the 3rd or the 4th LED panel for either all-in LED panel coordinated Red/NIR light emission or various subsets, such as the 1st LED is the lead on the 5th and 6th following LED panels, or the 2nd LED is the lead panel for the 5th and 6th following LED panels. Various control configurations are enabled and covered by claim 20.<br><br>The analysis of claim 1 and 19 above, from which claim 20 depends, explains and illustrates that for coordinated panel-to-panel light emission control, a comm control cable is used between the 1st /lead LED panel and the 2nd /follow LED panel and the 3rd /follow LED and the 4th /follow LED panel. One end of the comm control cable is plugged into the 1st /lead LED panel's OUT port and the other end of the comm control cable is plugged into the 2nd /follow LED panel's IN port. A simple control |

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| sixth housing and a sixth plurality of lights configured to emit at least one of red light and near infrared light;<br><br>communicatively coupling each of the fifth light therapy device and the sixth light therapy device directly to at least one of the first light therapy device, the second light therapy device, the third light therapy device, and the fourth light therapy device; and<br><br>emitting at least one of red light and near infrared light from at least a portion of the fifth plurality of lights and at least a portion of the sixth plurality of lights. | configuration is to daisy chain 3 comm control cables as discussed above for the 4-panel system in claim 19. Joovv repeats and realleges the allegations in the infringement contentions associated with claim 1 above as they apply in equal measure to claim 19.<br><br>It is a simple matter to supplement the 4-panel LED system in claim 1 and add a 5th LED panel and a 6th LED panel, thereby creating a 6-panel system. Claim 1 explains and illustrates the common lead/follow coordinated control system for a 2-panel system. The 6-panel system of this claim 20 follows the instructions set forth above in claim 1 and 19. Claim 1 also shows a number of 4-panel systems advertised and highlighted by MRL. In a daisy chained control configuration, that is, in one 4-panel system, the 1st /lead LED panel has a 1st comm control cable at its OUT port and the 2nd /follow LED panel has the 1st control cable at its IN port. The 2nd LED panel acts as the leader for the 3rd LED when: a 2nd comm control cable is in the 2nd LED panel's OUT port and the 2nd control cable is in the 3rd /follow LED panel's IN port. The 3rd LED panel acts as the leader for the 4th LED when: a 3rd comm control cable is in the 3rd LED panel's OUT port and the 3rd control cable is in the 4th /follow LED panel's IN port. The 4-panel coordinated control is thereby established by the 1st/lead LED panel controlling in a coordinated manner the 2nd, 3rd and 4th LED panel light emissions. The 1st/lead LED panel can control all 4 panels to emit either Red/A or NIR/I light.<br>. If the daisy chained control is expanded to the 6-panel system, The 4th LED panel acts as the leader for the 5th LED when: a 4th comm control cable is in the 4th LED panel's OUT port and the 4th control cable is in the 5th /follow LED panel's IN port. The 5th LED panel acts as the leader for the 6th LED when: a 5th comm control cable is in the 5th LED panel's OUT port and the 5th control cable is in the 6th /follow LED panel's IN port. The 6-panel coordinated control is thereby established by the 1st/lead LED panel controlling in a coordinated manner the 2nd, 3rd , 4th , 5th and 6th LED panel light emissions. The 1st/lead LED panel can control all 6 panels to emit either Red/A or NIR/I light.<br><br>As indicated earlier in this claim 20, various subsets of controlled Red/A and NIR/I emissions can be established in the 6-panel system.<br><br>MRL's manuals, promotional videos and social media posts instruct users to configure the therapy systems using 6 LED panels, communicatively coupled them together with 5 or less comm control cables and this is an infringement of claim 20 and further MRL offers to sell these infringing accused products in such comm control cabled together manner. |