US 20240260538A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0260538 A1**

Copeland et al. (43) **Pub. Date: Aug. 8, 2024**

(54) **MASSAGING PET BED ASSEMBLY**

(71) Applicants: **Nick Copeland**, Fair Grove, MO (US); **Clay Copeland**, Fair Grove, MO (US); **Debra Copeland**, Fair Grove, MO (US)

(72) Inventors: **Nick Copeland**, Fair Grove, MO (US); **Clay Copeland**, Fair Grove, MO (US); **Debra Copeland**, Fair Grove, MO (US)

(21) Appl. No.: **18/104,870**

(22) Filed: **Feb. 2, 2023**

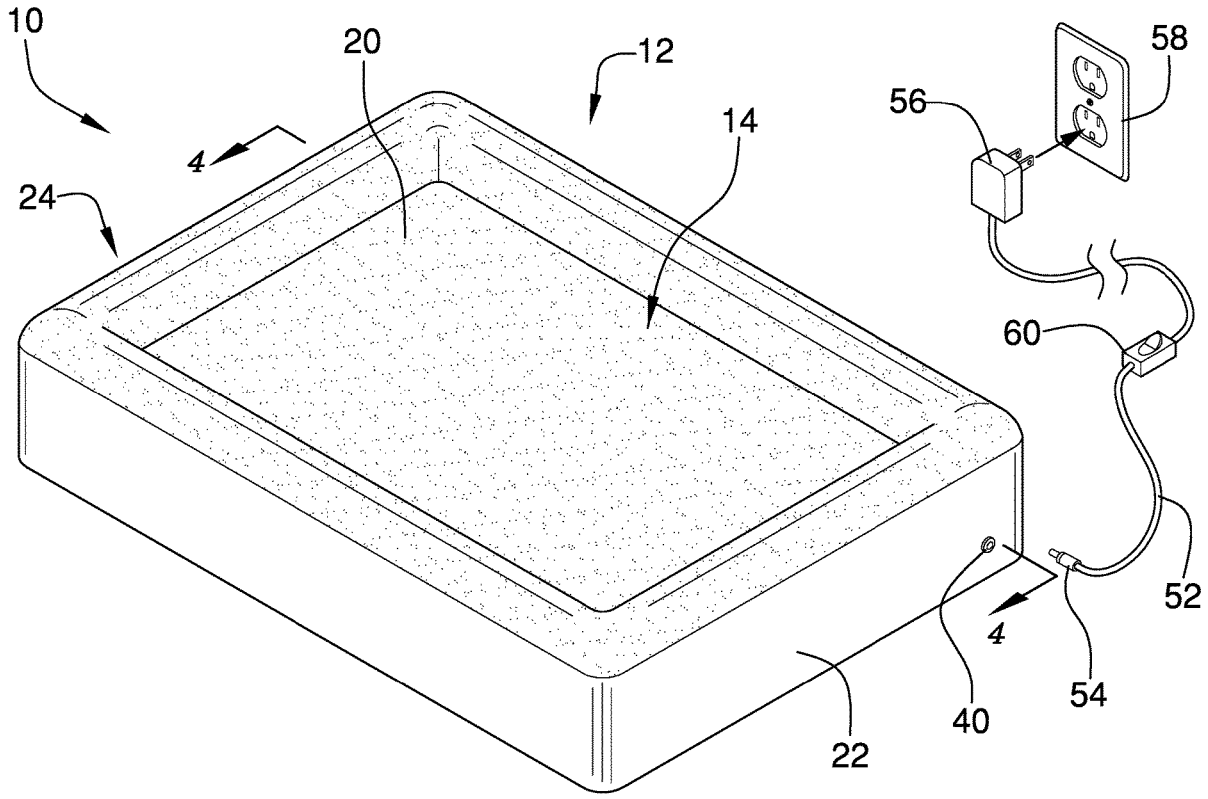
Publication Classification

(51) **Int. Cl.**
A01K 1/035 (2006.01)

(52) **U.S. Cl.**
CPC ***A01K 1/0353*** (2013.01)

(57) **ABSTRACT**

A massaging pet bed assembly for enhancing comfort for a pet while the pet is lying down includes a pet bed that has a recess integrated into the pet bed to facilitate a pet to lie in the recess. A cushion is integrated into the pet bed to facilitate the pet lie on the cushion. A heating element is integrated into the pet bed to heat the pet bed for warming the pet when the pet lies on the pet bed. A vibration unit is integrated into the pet bed and the vibration unit vibrates the pet bed when the vibration unit is turned on to facilitate the pet to enjoy the sensation of vibration when the pet lies on the pet bed.



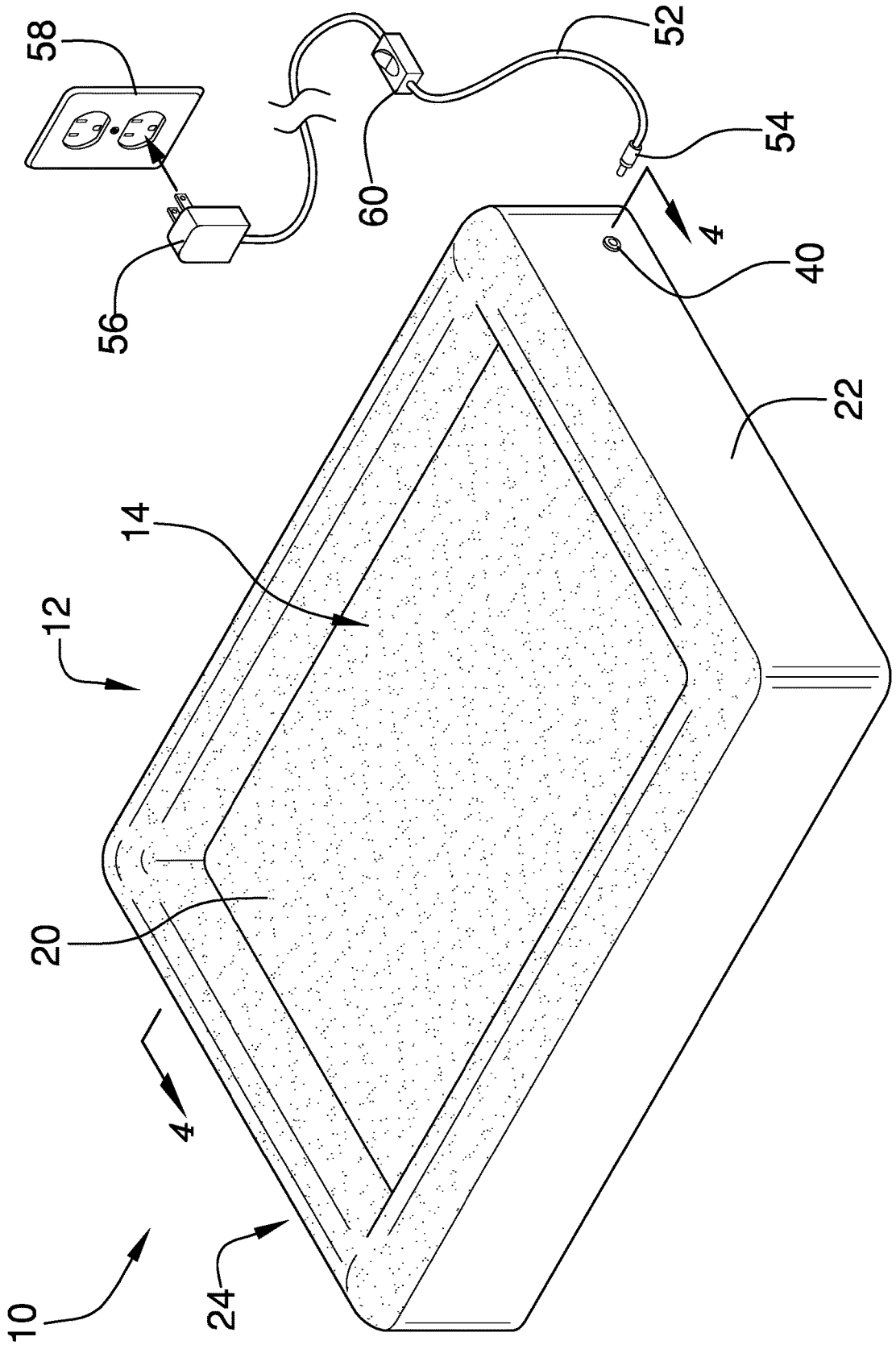


FIG. 1

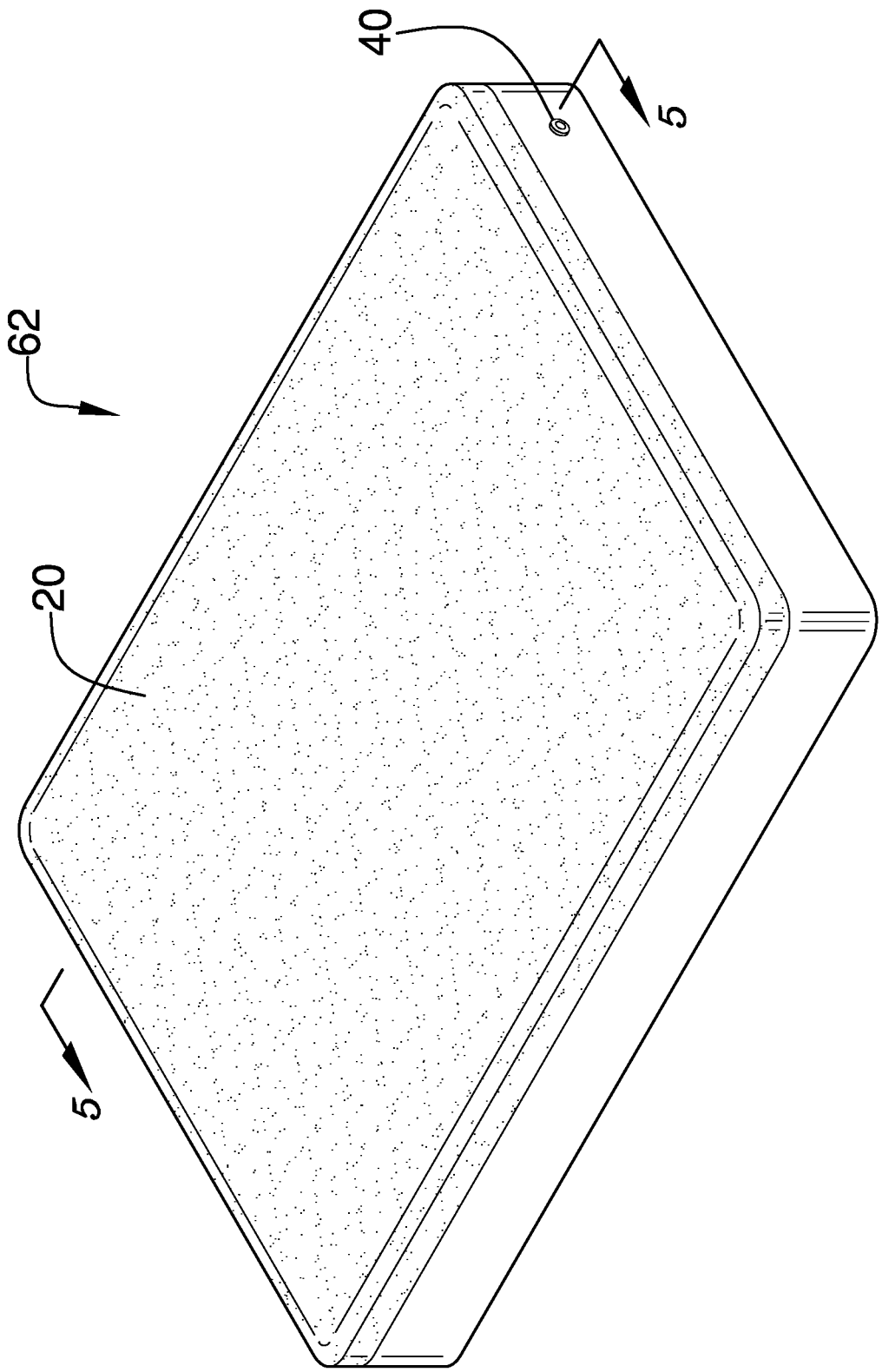


FIG. 2

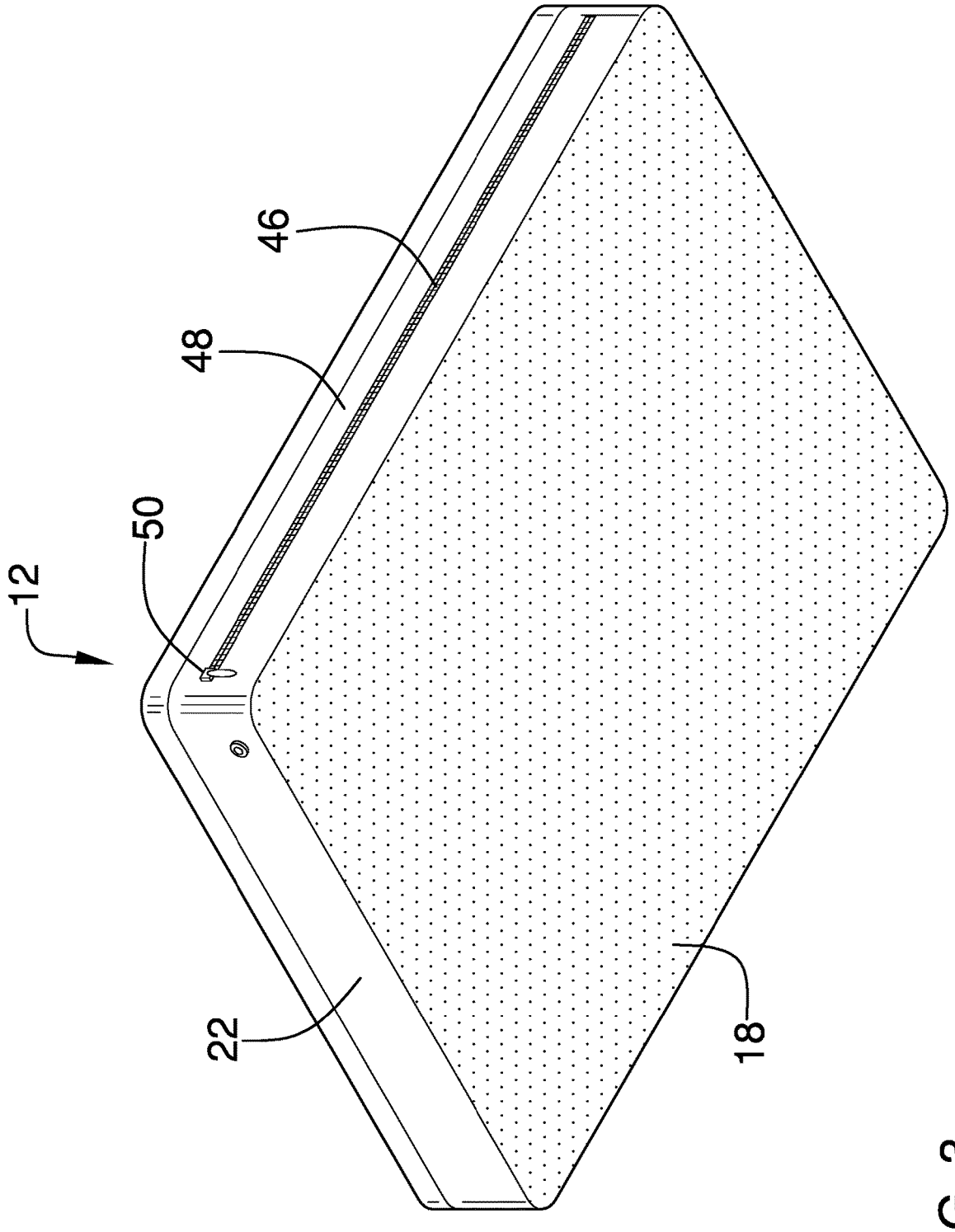
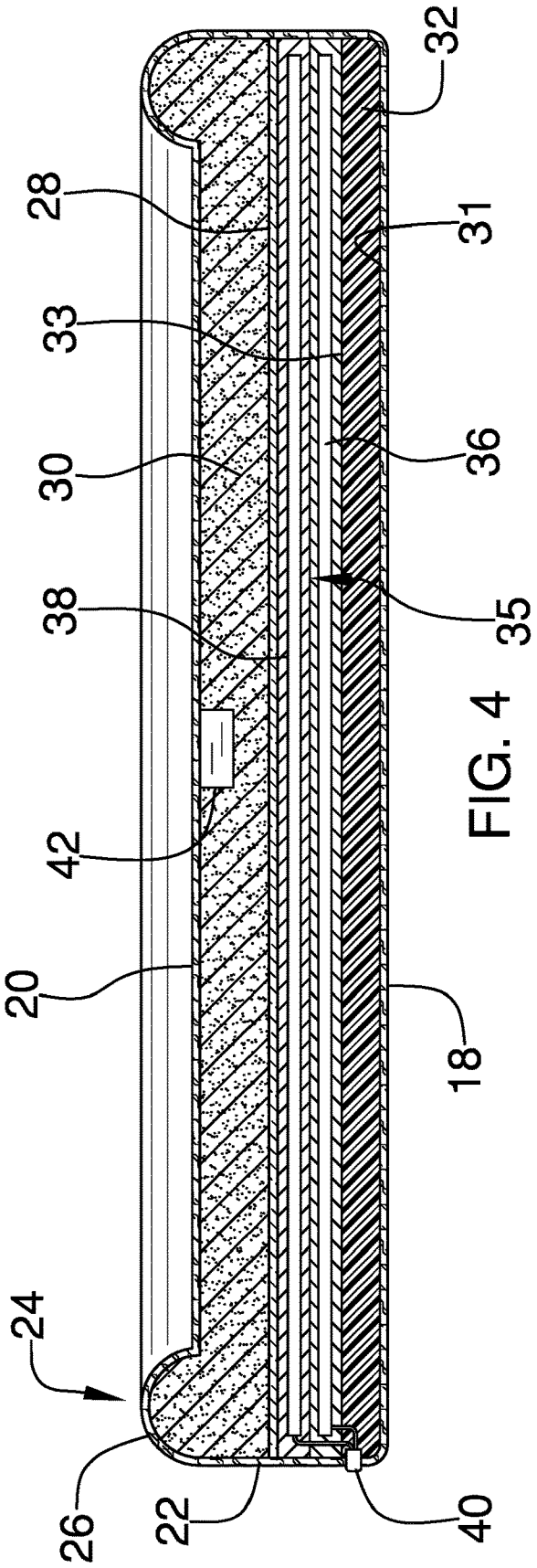


FIG. 3


32
28
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33
36
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35
38
42
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18
24
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22
40

FIG. 4

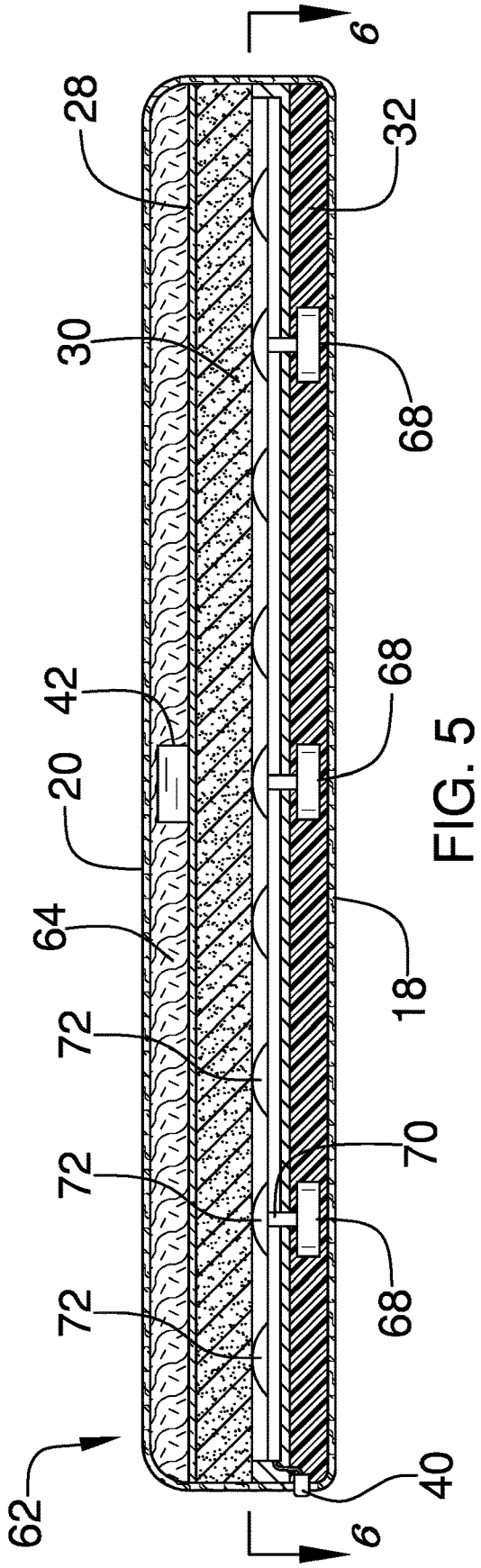
6
28
32
30
68
42
68
20
64
18
72
70
72
68
72
62
40
6

FIG. 5

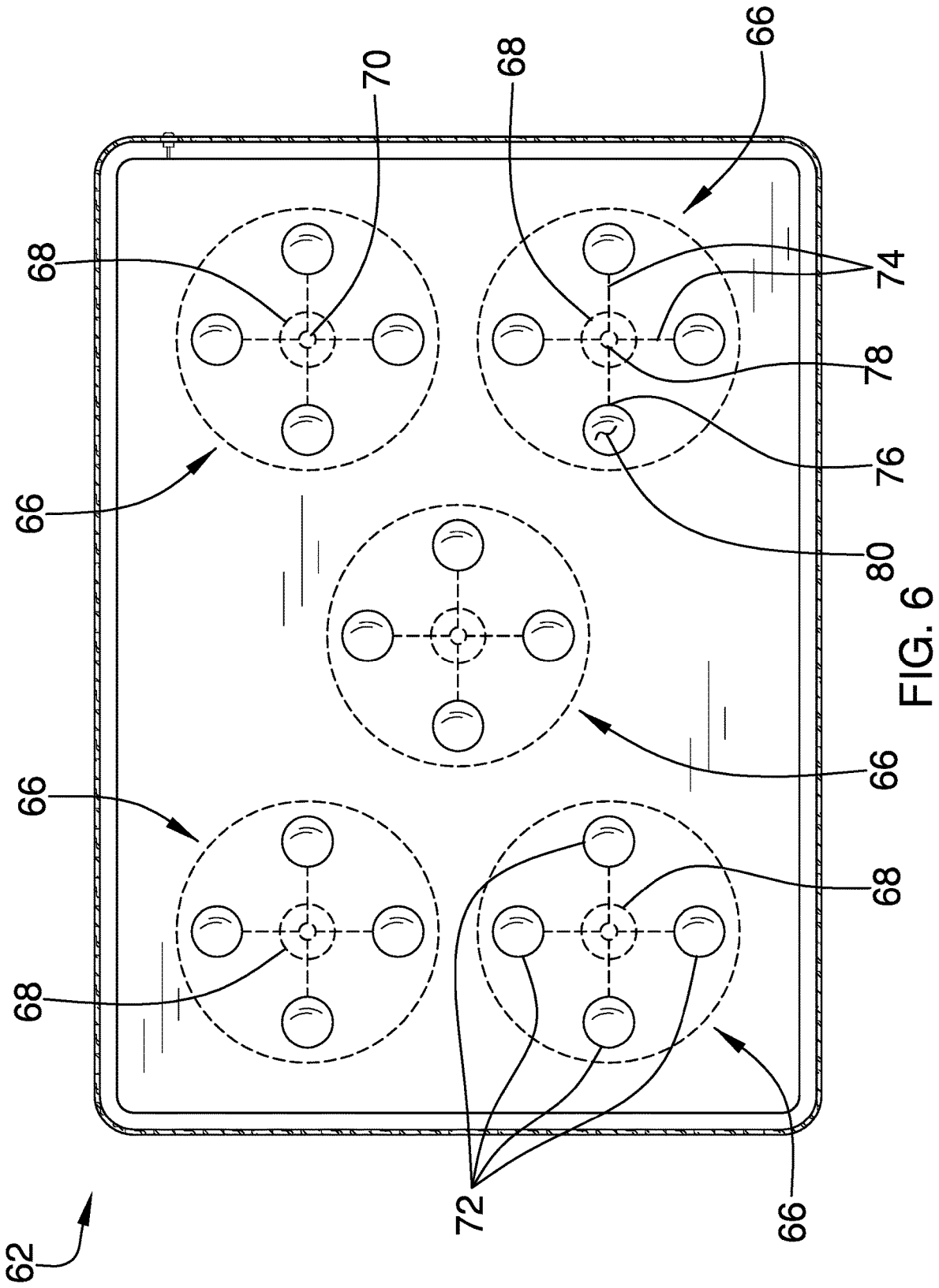

FIG. 6

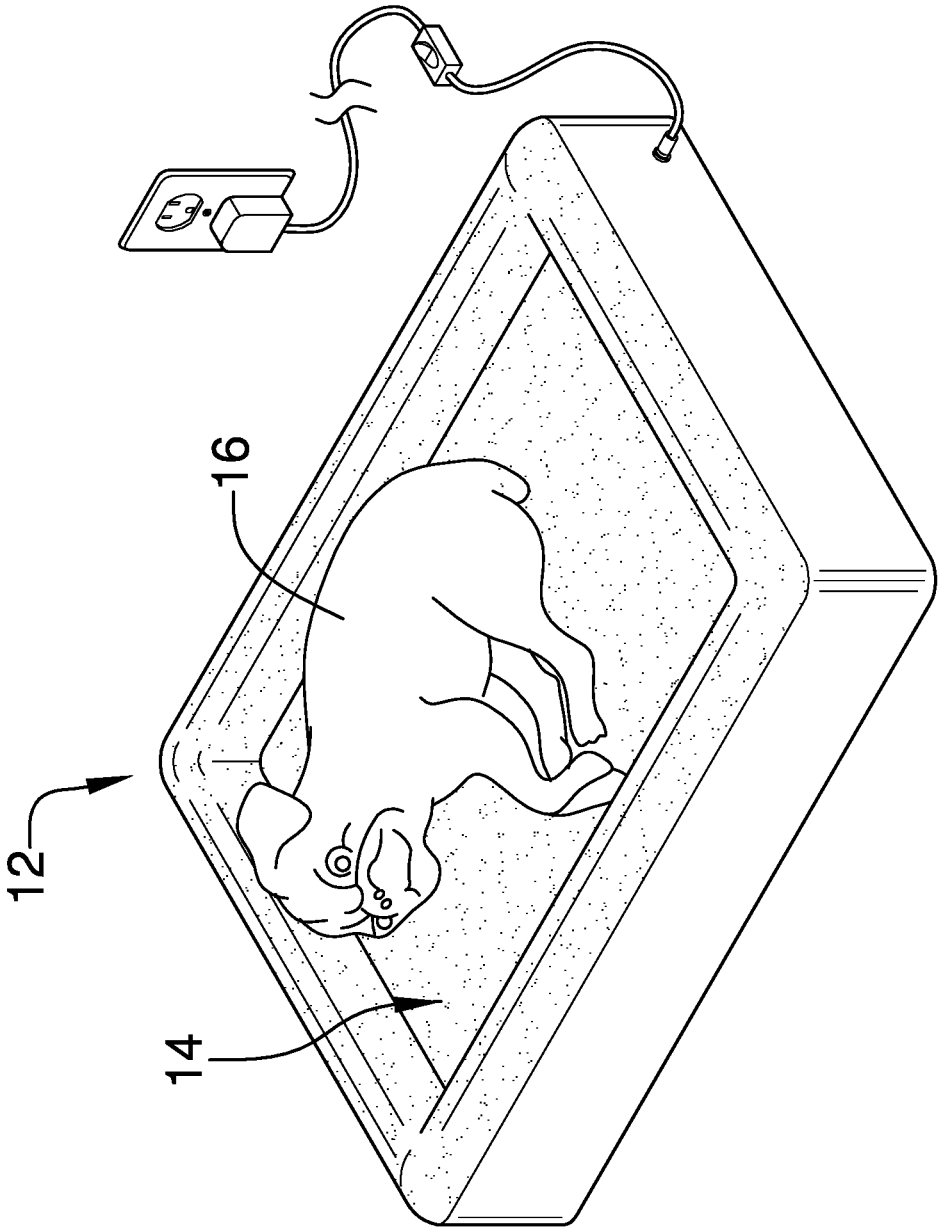

FIG. 7

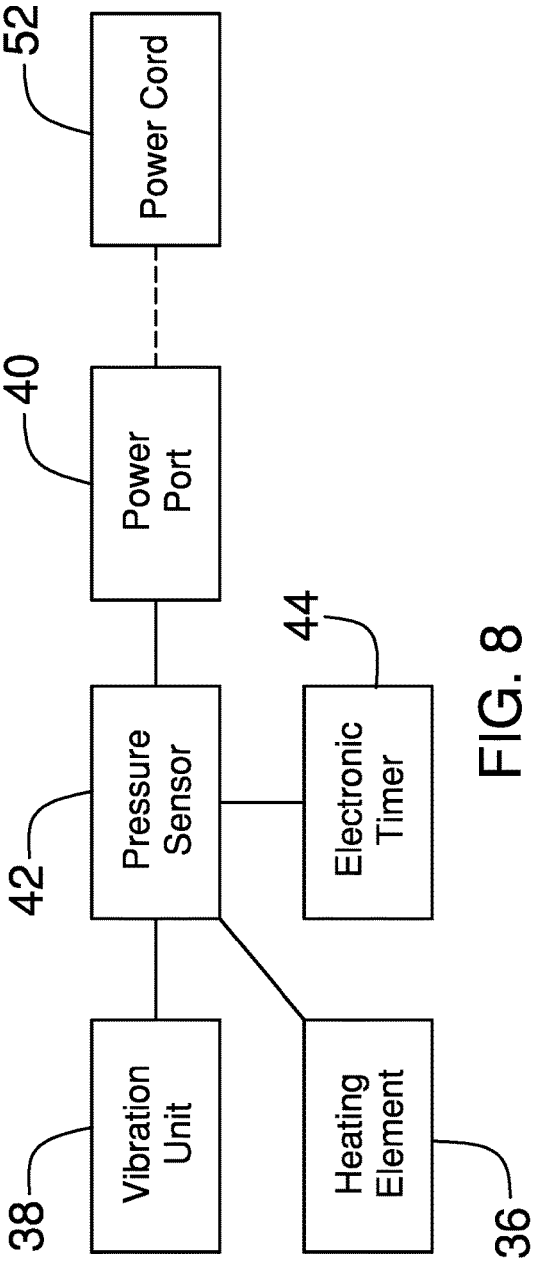
52
Power Cord
40
Power Port
42
Pressure Sensor
44
Electronic Timer
38
Vibration Unit
36
Heating Element

FIG. 8

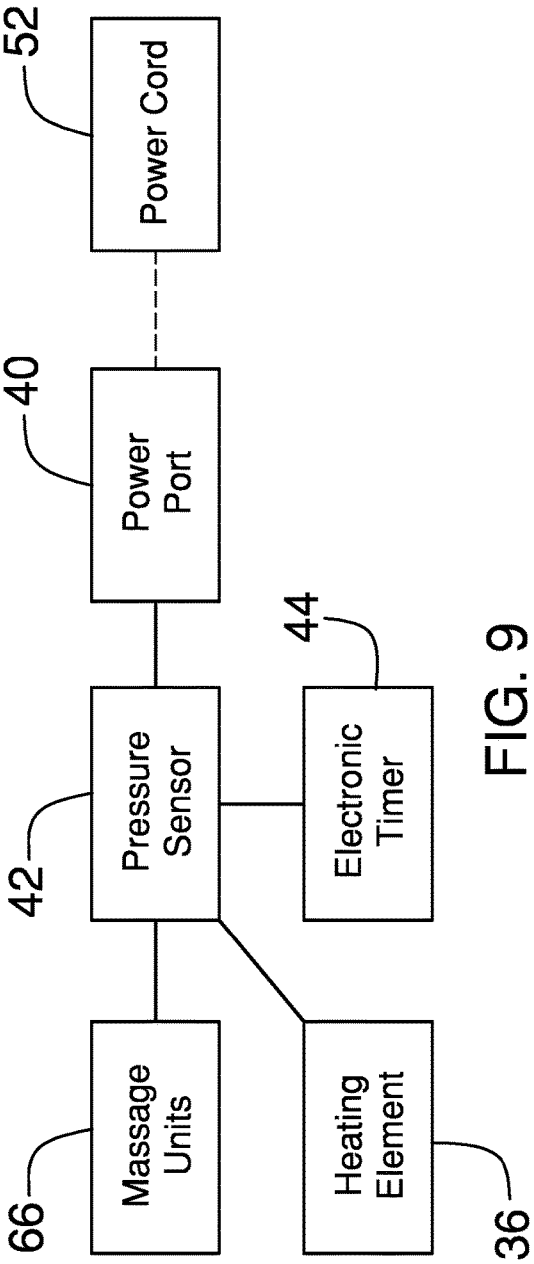
52
Power Cord
40
Power Port
42
Pressure Sensor
44
Electronic Timer
66
Massage Units
36
Heating Element

FIG. 9

MASSAGING PET BED ASSEMBLY

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

[0002] Not Applicable

THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

[0003] Not Applicable

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC OR AS A TEXT FILE VIA THE OFFICE ELECTRONIC FILING SYSTEM

[0004] Not Applicable

STATEMENT REGARDING PRIOR DISCLOSURES BY THE INVENTOR OR JOINT INVENTOR

[0005] Not Applicable

BACKGROUND OF THE INVENTION

(1) Field of the Invention

[0006] The disclosure relates to pet bed devices and more particularly pertains to a new pet bed device for enhancing comfort for a pet while the pet is lying down. The device includes a pet bed that has a rigid panel on a bottom of the pet bed and a cushion on a top of the pet bed. The device includes a heating element for warming the pet bed and a vibration unit for vibrating the pet bed. The device includes a pressure sensor which actuates each of the vibration unit and the heating element when the pet lies on the pet bed.

(2) Description of Related Art Including Information Disclosed Under 37 CFR 1.97 and 1.98

[0007] The prior art relates to pet bed devices including a pet bed that includes a thermoelectric unit for heating or cooling the pet bed and a platform that is removably attachable to the pet bed. The prior art discloses a portable seat that has a graphite heating element. The prior art discloses a pet bed that has a raised ring and a thermoelectric unit for warming or cooling the pet bed.

BRIEF SUMMARY OF THE INVENTION

[0008] An embodiment of the disclosure meets the needs presented above by generally comprising a pet bed that has a recess integrated into the pet bed to facilitate a pet to lie in the recess. A cushion is integrated into the pet bed to facilitate the pet lie on the cushion. A heating element is integrated into the pet bed to heat the pet bed for warming the pet when the pet lies on the pet bed. A vibration unit is integrated into the pet bed and the vibration unit vibrates the pet bed when the vibration unit is turned on to facilitate the pet to enjoy the sensation of vibration when the pet lies on the pet bed.

[0009] There has thus been outlined, rather broadly, the more important features of the disclosure in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the disclosure that will be described hereinafter and which will form the subject matter of the claims appended hereto.

[0010] The objects of the disclosure, along with the various features of novelty which characterize the disclosure, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWING(S)

[0011] The disclosure will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

[0012] FIG. **1** is a top perspective view of a massaging pet bed assembly according to an embodiment of the disclosure.

[0013] FIG. **2** is a top perspective view of an alternative embodiment of the disclosure.

[0014] FIG. **3** is a bottom perspective view of an embodiment of the disclosure.

[0015] FIG. **4** is a cross sectional view taken along line **4-4** of FIG. **1** of an embodiment of the disclosure.

[0016] FIG. **5** is a cross sectional view taken along line **5-5** of FIG. **2** of an alternative embodiment of the disclosure.

[0017] FIG. **6** is a cross sectional view taken along line **6-6** of FIG. **5** of an alternative embodiment of the disclosure.

[0018] FIG. **7** is a perspective in-use view of an embodiment of the disclosure.

[0019] FIG. **8** is a schematic view of an embodiment of the disclosure.

[0020] FIG. **9** is a schematic view of an alternative embodiment of the disclosure.

DETAILED DESCRIPTION OF THE INVENTION

[0021] With reference now to the drawings, and in particular to FIGS. **1** through **9** thereof, a new pet bed device embodying the principles and concepts of an embodiment of the disclosure and generally designated by the reference numeral **10** will be described.

[0022] As best illustrated in FIGS. **1** through **9**, the massaging pet bed assembly **10** generally comprises a pet bed **12** that has a recess **14** integrated into the pet bed **12** to facilitate a pet **16** to lie in the recess **14**. The pet **16** may be a domesticated animal such as a cat or a dog. The pet bed **12** has a bottom wall **18**, a top wall **20** and an outer wall **22** extending between the top wall **20** and the bottom wall **18** and the bottom wall **18** is comprised of a non-skid material to inhibit the pet bed **12** from sliding on a support surface **23** such as a floor, for example. The pet bed **12** has a prominence **24** extending upwardly from the top wall **20** and the prominence **24** extends around a full perimeter of the outer wall **22** such that the prominence **24** defines the recess **14** with respect to the top wall **20**. The prominence **24** has a top end **26** that is rounded and the pet bed **12** has a dividing wall **28** that is positioned between the top wall **20** and the bottom wall **18**. Furthermore, the top wall **20** and the top end **26** of

the prominence may be comprised of a deformable textile, such as cotton for example, which enhances comfort for the pet **16**.

[0023] A cushion **30** is integrated into the pet bed **12** to facilitate the pet **16** to lie on the cushion **30**. Additionally, the cushion **30** is comprised of a resiliently compressible material to enhance comfort for the pet **16**. The cushion **30** extends between the dividing wall **28** and the top wall **20** and the cushion **30** extends into the prominence **24** such that the cushion **30** fills the prominence **24**. A panel **32** is provided which has a bottom side **34** resting on an upper surface **31** of the bottom wall **18** of the pet bed **12** and a top surface **33** of the panel **32** is spaced from the dividing wall **28** to define a space **35** between the panel **32** and the dividing wall **28**. The panel **32** is comprised of a rigid material thereby inhibiting the bottom wall **18** of the pet bed **12** from deforming when the pet bed **12** is positioned on the support surface **23**.

[0024] A heating element **36** is integrated into the pet bed **12** and the heating element **36** is in thermal communication with the pet bed **12** such that the heating element **36** heats the pet bed **12** when the heating element **36** is turned on. In this way the heating element **36** can warm the pet **16** when the pet **16** lies on the pet bed **12**. The heating element **36** is positioned in the space **35** defined between the dividing wall **28** and the panel **32** and the heating element **36** may comprise an electric heating element which has an operational temperature ranging between approximately 80.0 degrees Fahrenheit and 100.0 degrees Fahrenheit.

[0025] A vibration unit **38** is integrated into the pet bed **12** and the vibration unit **38** vibrates the pet bed **12** when the vibration unit **38** is turned on to facilitate the pet **16** to enjoy the sensation of vibration when the pet **16** lies on the pet bed **12**. The vibration unit **38** is positioned between the heating element **36** and the top surface of the panel **32**. Additionally, the vibration unit **38** may comprise an electronic vibration unit which might include an electric motor and a cam that rotates in an eccentric orbit when the electric motor is turned on. A power port **40** is integrated into the outer wall **22** of the pet bed **12** and the power port **40** is electrically coupled to each of the heating element **36** and the vibration unit **38**.

[0026] A pressure sensor **42** is integrated into the pet bed **12** such that the pressure sensor **42** is engaged when the pet **16** lies on the pet bed **12**. The pressure sensor **42** is in communication with each of the heating element **36** and the vibration unit **38** and each of the heating element **36** and the vibration unit **38** is turned on when the pressure sensor **42** is engaged. Conversely, each of the heating element **36** and the vibration unit **38** is turned off when the pressure sensor **42** is disengaged. The pressure sensor **42** is integrated into the cushion **30** and the pressure sensor **42** is electrically coupled to each of the heating element **36** and the vibration unit **38**. The pressure sensor **42** may have an operational threshold ranging between approximately 1.0 kg and 3.0 kg.

[0027] An electronic timer **44** is integrated into the pet bed **12** and the electronic timer **44** is electrically coupled to the pressure sensor **42**. The electronic timer **44** is electrically coupled to each of the heating element **36** and the vibration unit **38** and the electronic timer **44** is actuated to countdown a predetermined duration of time when the pressure sensor **42** is engaged. Each of the heating element **36** and the vibration unit **38** is turned off when the electronic timer **44** completes counting down the predetermined duration of time. The pet bed **12** has a cut **46** extending through a back side **48** of the outer wall **22** of the pet bed **12** thereby facilitating the pet bed **12** to be removed from the cushion **30** and the heating element **36** and the vibration unit **38** in the convention of a cover. The pet bed **12** has a closure **50** integrated into the back side **48** of the outer wall **22** and the closure **50** is aligned with the cut **46** for opening and closing the cut **46**. Additionally, the pet bed **12** is comprised of a material that can be laundered and the closure **50** may comprise a zipper or other type of releasable, mechanical closure.

[0028] A power cord **52** is provided that has a first plug **54** and a second plug **56**. The first plug **54** is electrically matable to the power port **40** in the outer wall **22** of the pet bed **12** and the second plug **56** is electrically matable to a power source **58** comprising a female electrical outlet. The power cord **52** has a switch **60** that is positioned between the first plug **54** and the second plug **56** and the switch **60** is positionable in an on position or an off position. The switch **60** breaks a circuit between the first plug **54** and the second plug **56** when the switch **60** is in the off position to inhibit the flow of electricity between the power source and the power port **40**. The switch **60** completes the circuit between the first plug **54** and the second plug **56** when the switch **60** is in the on position to facilitate the flow of electricity between the power source and the power port **40**.

[0029] In an alternative embodiment **62** shown in FIGS. **2**, **5**, **6** and **9**, the cushion **30** is positioned beneath the dividing wall **28** in the pet bed **12** and a pillow **64** is positioned between the dividing wall **28** and the top wall **20** of the pet bed **12** such that the pet **16** can lie on the pillow **64**. The pillow **64** is comprised of a resiliently compressible material to enhance comfort for the pet **16**. Continuing in the alternative embodiment **62**, a plurality of massage units **66** is each integrated into the pet bed **12** and each of the massage units **66** is positioned between the top surface of the panel **32** and the cushion **30** such that each of the plurality of massage units **66** is in physical contact with the cushion **30**. In this way each of the plurality of massage units **66** massages the pet **16** when the pet **16** lies on the pet bed **12** and the plurality of massage units **66** is turned on.

[0030] Each of the massage units **66** includes a motor **68** that is integrated into the pet bed **12** and the motor **68** rotating in a first direction when the motor **68** is turned on. The motor **68** is electrically coupled to the pressure sensor **42** and the motor **68** is turned on when the pressure sensor **42** is engaged. The motor **68** has an output shaft **70** extending toward the cushion **30** and the motor **68** may comprise an electric motor. Each of the massage units **66** includes a plurality of balls **72** that is each positioned between the heating element **36** and the cushion **30**. The balls **72** are spaced apart from each other and are evenly distributed around the motor **68**.

[0031] Each of the massage units **66** includes a plurality of arms **74** and each of the arms **74** has a first end **76** and a second end **78**. Each of the plurality of arms **74** lies on a plane that is oriented parallel with top surface **33** of the panel **32**. The first end **76** of each of the arms **74** is coupled to an outer surface **80** of a respective one of the balls **72** and the second end **78** of each of the arms **74** is coupled to the output shaft **70** of the motor **68**. Each of the plurality of balls **72** is urged to orbit the output shaft **70** when the motor **68** is turned on to massage the pet **16** when the pet **16** lies on the pet bed **12**. Additionally, each of the massage units **66** may

include a plurality of heating elements that is each integrated into a respective one of the massage balls **72**.

[0032] In use, the vibration unit **38** and the heating element **36** are turned on when the pet **16** lies on the pet bed **12**. In this way the pet **16** is soothed with the vibration and the pet **16** is warmed with the heating element **36**. Each of the heating element **36** and the vibration unit **38** are turned off when the pet **16** leaves the pet bed **12**. Additionally, each of the vibration unit **38** and the heating element **36** are turned off when the electronic timer **44** finishes counting down the predetermined duration of time. As is described in the alternative embodiment **62** the plurality of massage units **66** are turned on when the pet **16** lies on the pet bed **12** to facilitate the pet **16** to enjoy a soothing massage while the pet **16** lies on the pet bed **12**.

[0033] With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of an embodiment enabled by the disclosure, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by an embodiment of the disclosure.

[0034] Therefore, the foregoing is considered as illustrative only of the principles of the disclosure. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the disclosure to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the disclosure. In this patent document, the word "comprising" is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article "a" does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be only one of the elements.

I claim:

1. A massaging pet bed assembly for massaging a pet while the pet is resting, said assembly comprising:

a pet bed having a recess integrated into said pet bed wherein said recess is configured to facilitate a pet to lie in said recess;

a cushion being integrated into said pet bed wherein said cushion is configured to have to the pet lie on said cushion, said cushion being comprised of a resiliently compressible material wherein said cushion is configured to enhance comfort for the pet;

a heating element being integrated into said pet bed, said heating element being in thermal communication with said pet bed such that said heating element heats said pet bed when said heating element is turned on wherein said heating element is configured to warm the pet when the pet lies on said pet bed; and

a vibration unit being integrated into said pet bed, said vibration unit vibrating said pet bed when said vibration unit is turned on wherein said vibration unit is configured to facilitate the pet to enjoy the sensation of vibration when the pet lies on said pet bed.

2. The assembly according to claim **1**, wherein said pet bed has a bottom wall, a top wall and an outer wall extending between said top wall and said bottom wall, said pet bed having a prominence extending upwardly from said top wall, said prominence extending around a full perimeter of said outer wall such that said prominence defines said recess with respect to said top wall, said prominence having a top end being rounded, said pet bed having a dividing wall being positioned between said top wall and said bottom wall.

3. The assembly according to claim **2**, wherein said cushion extends between said dividing wall and said top wall, said cushion extending into said prominence such that said cushion fills said prominence.

4. The assembly according to claim **1**, further comprising a panel having a bottom side resting on an upper surface of said bottom wall of said pet bed, a top surface of said panel being spaced from said dividing wall to define a space between said panel and said dividing wall, said panel being comprised of a rigid material thereby inhibiting said bottom wall of said pet bed from deforming when said pet bed is positioned on a support surface.

5. The assembly according to claim **4**, wherein:

said heating element is positioned beneath said dividing wall; and

said vibration unit is positioned between said heating element and said top surface of said panel.

6. The assembly according to claim **2**, further comprising:

a power port being integrated into said outer wall of said pet bed, said power port being electrically coupled to each of said heating element and said vibration unit; and

a power cord having a first plug and a second plug, said first plug being electrically matable to said power port in said outer wall of said pet bed, said second plug being electrically matable to a power source comprising a female electrical outlet, said power cord having a switch being positioned between said first plug and said second plug, said switch being positionable in an on position or an off position, said switch breaking a circuit between said first plug and said second plug when said switch is in said off position wherein said switch is configured to inhibit the flow of electricity between the power source and said power port, said switch completing said circuit between said first plug and said second plug when said switch is in said on position wherein said switch is configured to facilitate the flow of electricity between the power source and said power port.

7. The assembly according to claim **1**, further comprising a pressure sensor being integrated into said pet bed wherein said pressure sensor is configured to be engaged when the pet lies on said pet bed, said pressure sensor being in communication with each of said heating element and said vibration unit, each of said heating element and said vibration unit being turned on when said pressure sensor is engaged, each of said heating element and said vibration unit being turned off when said pressure sensor is disengaged, said pressure sensor being integrated into said cushion, said pressure sensor being electrically coupled to each of said heating element and said vibration unit.

8. The assembly according to claim **7**, further comprising an electronic timer being integrated into said pet bed, said electronic timer being electrically coupled to said pressure sensor, said electronic timer being electrically coupled to each of said heating element and said vibration unit, said electronic timer being actuated to countdown a predetermined duration of time when said pressure sensor is engaged, each of said heating element and said vibration unit

being turned off when said electronic timer completes counting down said predetermined duration of time.

9. A massaging pet bed assembly for massaging a pet while the pet is resting, said assembly comprising:

a pet bed having a recess integrated into said pet bed wherein said recess is configured to facilitate a pet to lie in said recess, said pet bed having a bottom wall, a top wall and an outer wall extending between said top wall and said bottom wall, said pet bed having a prominence extending upwardly from said top wall, said prominence extending around a full perimeter of said outer wall such that said prominence defines said recess with respect to said top wall, said prominence having a top end being rounded, said pet bed having a dividing wall being positioned between said top wall and said bottom wall;

a cushion being integrated into said pet bed wherein said cushion is configured to have to the pet lie on said cushion, said cushion being comprised of a resiliently compressible material wherein said cushion is configured to enhance comfort for the pet, said cushion extending between said dividing wall and said top wall, said cushion extending into said prominence such that said cushion fills said prominence;

a panel having a bottom side resting on an upper surface of said bottom wall of said pet bed, a top surface of said panel being spaced from said dividing wall to define a space between said panel and said dividing wall, said panel being comprised of a rigid material thereby inhibiting said bottom wall of said pet bed from deforming when said pet bed is positioned on a support surface;

a heating element being integrated into said pet bed, said heating element being in thermal communication with said pet bed such that said heating element heats said pet bed when said heating element is turned on wherein said heating element is configured to warm the pet when the pet lies on said pet bed, said heating element being positioned beneath said dividing wall;

a vibration unit being integrated into said pet bed, said vibration unit vibrating said pet bed when said vibration unit is turned on wherein said vibration unit is configured to facilitate the pet to enjoy the sensation of vibration when the pet lies on said pet bed, said vibration unit being positioned between said heating element and said top surface of said panel;

a power port being integrated into said outer wall of said pet bed, said power port being electrically coupled to each of said heating element and said vibration unit;

a pressure sensor being integrated into said pet bed wherein said pressure sensor is configured to be engaged when the pet lies on said pet bed, said pressure sensor being in communication with each of said heating element and said vibration unit, each of said heating element and said vibration unit being turned on when said pressure sensor is engaged, each of said heating element and said vibration unit being turned off when said pressure sensor is disengaged, said pressure sensor being integrated into said cushion, said pressure sensor being electrically coupled to each of said heating element and said vibration unit;

an electronic timer being integrated into said pet bed, said electronic timer being electrically coupled to said pressure sensor, said electronic timer being electrically coupled to each of said heating element and said vibration unit, said electronic timer being actuated to countdown a predetermined duration of time when said pressure sensor is engaged, each of said heating element and said vibration unit being turned off when said electronic timer completes counting down said predetermined duration of time; and

a power cord having a first plug and a second plug, said first plug being electrically matable to said power port in said outer wall of said pet bed, said second plug being electrically matable to a power source comprising a female electrical outlet, said power cord having a switch being positioned between said first plug and said second plug, said switch being positionable in an on position or an off position, said switch breaking a circuit between said first plug and said second plug when said switch is in said off position wherein said switch is configured to inhibit the flow of electricity between the power source and said power port, said switch completing said circuit between said first plug and said second plug when said switch is in said on position wherein said switch is configured to facilitate the flow of electricity between the power source and said power port.

10. The assembly according to claim **9**, wherein:

said cushion is positioned beneath said dividing wall in said pet bed; and

said assembly includes a pillow being positioned between said dividing wall and said top wall of said pet bed wherein said pillow is configured to have the pet lie on said pillow, said pillow being comprised of a resiliently compressible material wherein said pillow is configured to enhance comfort for the user.

11. The assembly according to claim **9**, further comprising a plurality of massage units, each of said massage units being integrated into said pet bed, each of said massage units being positioned between said top surface of said panel and said cushion such that each of said plurality of massage units is in physical contact with said cushion wherein each of said plurality of massage units is configured to massage the pet when the pet lies on said pet bed and said plurality of massage units is turned on.

12. The assembly according to claim **11**, wherein each of said massage units comprises:

a motor being integrated into said pet bed, said motor rotating in a first direction when said motor is turned on, said motor being electrically coupled to said pressure sensor, said motor being turned on when said pressure sensor is engaged, said motor having an output shaft extending toward said cushion;

a plurality of balls, each of said balls being positioned between said heating element and said cushion, said plurality of balls being spaced apart from each other and being evenly distributed around said motor; and

a plurality of arms, each of said arms having a first end and a second end, each of said plurality of arms lying on a plane being oriented parallel with top surface of said panel, said first end of each of said arms being coupled to an outer surface of a respective one of said balls, said second end of each of said arms being coupled to said output shaft of said motor, each of said plurality of balls being urged to orbit said output shaft

when said motor is turned on wherein said plurality of balls is configured to massage the pet when the pet lies on said pet bed.

* * * * *