Claims

What is claimed is:

~~1. A stabilizing device for holding a medical device, the stabilizing device comprising:~~

~~an integrally formed base plate portion and carriage portion having a clamp mounting channel;~~

~~a clamp for receiving the medical device, wherein the clamp is slidably disposable in the clamp mounting channel; and~~

~~wherein the clamp includes a foot configured to engage the channel to lock the position of the clamp in the channel.~~

~~2. The stabilizing device of claim 1 wherein the channel comprises a first mounting rail and a second mounting rail.~~

~~3. The stabilizing device of claim 2 wherein the clamp includes a fixed mounting flange and a movable mounting flange.~~

~~4. The stabilizing device of claim 3 wherein the fixed mounting flange and the movable mounting flange are disposable in recesses in the first mounting rail and the second mounting rail.~~

~~5. The stabilizing device of claim 4 further comprising an actuator that is actuatable to retract the moveable mounting flange.~~

~~6. The stabilizing device of any one of claims 3-5 wherein the movable mounting flange is biased away from the fixed mounting flange.~~

~~7. The stabilizing device of any one of claims 1-6 further comprising an actuator actuatable to move the foot into engagement with the channel.~~

~~8. The stabilizing device of any one of claims 1-7 further comprising a cam for moving the foot into engagement with the channel.~~

~~9. The stabilizing device of any one of claims 1-7 wherein the foot is biased to a retracted position.~~

~~10. The stabilizing device of any one of claims 1-9 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.~~

~~11. The stabilizing device of any one of claims 1-10 wherein the clamp further comprises an actuator that can be actuated or moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.~~

~~12. A stabilizing system for holding a medical device, the stabilizing system comprising:~~

~~an integrally formed base plate portion and carriage portion having a clamp mounting channel;~~

~~a clamp for receiving the medical device, wherein the clamp is slidably disposable in the clamp mounting channel;~~

~~wherein the clamp includes a foot configured to engage the channel to lock the position of the clamp relative to the channel;~~

~~a table comprising:~~

~~a platform comprising side walls for receiving first and second retaining tabs of the base; and~~

~~a plurality of legs for supporting the platform.~~

~~13. The stabilizing system of claim 12 wherein the channel comprises a first mounting rail and a second mounting rail.~~

~~14. The stabilizing system of claim 13 wherein the clamp includes a fixed mounting flange and a movable mounting flange.~~

~~15. The stabilizing system of claim 14 wherein the fixed mounting flange and the movable mounting flange are disposable in recesses in the first mounting rail and the second mounting rail.~~

~~16. The stabilizing system of claim 15 further comprising a latch button that retracts the moveable mounting flange.~~

~~17. The stabilizing system of any one of claims 14-16 wherein the movable mounting flange is biased away from the fixed mounting flange.~~

~~18. The stabilizing system of any one of claims 12-17 further comprising a locking knob for moving the foot into engagement with the channel.~~

~~19. The stabilizing system of any one of claims 12-18 further comprising a cam for moving the foot into engagement with the channel.~~

~~20. The stabilizing system of any one of claims 12-18 wherein the foot is biased to a retracted position.~~

~~21. The stabilizing system of any one of claims 12-20 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.~~

~~22. The stabilizing system of any one of claims 12-21 wherein the clamp further comprises a free rotate lever that can be moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.~~

~~23.~~1. A stabilizing device, the stabilizing device comprising:
a base plate;
a carriage;
at least one clamp for receiving one or more medical devices; and
wherein at least one of the base plate and the carriage includes at least one rail.

~~24.~~2. The stabilizing device of claim ~~23~~ 1 wherein the at least one clamp is attachable to the at least one rail such that the at least one clamp can slide along the rail but is prevented from detaching from the rail.

~~25.~~3. The stabilizing device of claim ~~23~~ 1 wherein the base plate includes the at least one rail, and wherein the carriage is moveably attached to the at least one rail of the base plate and is prohibited from moving away from the base plate by the at least one rail.

~~26.~~4. The stabilizing device of any one of claims ~~23-25~~1-3 wherein the at least one rail comprises a plurality of locking teeth for engaging a latch member of at least one of the carriage and the at least one clamp.

~~27.~~5. The stabilizing device of any one of claims ~~23-25~~1-3 wherein at least one of a release button, knob, and/or lever is actuatable to enable the carriage and/or the at least one clamp to move laterally along the at least one rail.

~~28.~~ 6. The stabilizing device of any one of claims ~~23-27~~1-5 wherein:
the base plate comprises two mounting rails; and
the carriage comprises fixed and moveable retaining lips for securing the carriage between the two mounting rails.

~~29.~~7. The stabilizing device of any one of claims ~~23-28~~1-6 wherein the carriage comprises an adjustment mechanism for moving the at least one clamp laterally along the carriage.

~~30.~~8. The stabilizing device of claim ~~29~~ 7 wherein actuating a button, knob, and/or lever of the at least one clamp is configured to disengage the at least one clamp from the adjustment mechanism of the carriage.

~~31.~~9. The stabilizing device of any one of claims ~~29-30~~7-8 wherein the adjustment mechanism comprises a worm drive that engages a pin of a traveler for attaching the clamp.

~~32.~~10. The stabilizing device of any one of claims ~~29-31~~7-9 wherein the clamp further comprises at least one of release button, knob, and/or lever for disengaging the clamp from the adjustment mechanism.

~~33.~~11. The stabilizing device of any one of claims ~~23-32~~1-10 wherein the carriage comprises a first mounting rail and a second mounting rail.

~~34.~~12. The stabilizing device of claim ~~33~~ 11 wherein the clamp includes a fixed mounting flange and a movable mounting flange.

~~35.~~13. The stabilizing device of claim ~~34~~ 12 wherein the fixed mounting flange and the movable mounting flange are disposable in recesses in the first mounting rail and the second mounting rail.

~~36. A stabilizing system for holding a medical device, the stabilizing system comprising:~~
~~a stabilizer comprising:~~
~~a base plate comprising at least one rail extending upward and first and second retaining tabs;~~
~~a carriage moveably attached to the at least one rail of the base plate and is prohibited from moving away from the base plate by the at least one rail;~~
~~a clamp for receiving the medical device, wherein the clamp is moveably attached to the carriage;~~
~~a table comprising:~~
~~a platform comprising side walls for receiving the first and second retaining tabs of the base plate; and~~
~~a plurality of legs for supporting the platform.~~

~~37. The stabilizing system of claim 36 wherein the at least one rail of the base plate comprises a plurality of locking teeth for engaging a latch member of the carriage.~~

~~38. The stabilizing system of any one of claims 36-37 wherein the at least one rail of the base plate is received within a mounting channel of the carriage.~~

~~39. The stabilizing system of any one claims 36-38 wherein depressing a release button of the carriage enables the carriage to move laterally along the at least one rail.~~

~~40. The stabilizing system of any one of claims 36-39 wherein depressing the release button of the carriage enables the carriage to be removed from the at least one rail.~~

~~41. The stabilizing system of any claims 36-40 wherein:~~
~~the base plate comprises two mounting rails; and~~
~~the carriage comprises fixed and moveable retaining lips for securing the carriage between the two mounting rails.~~

~~42. The stabilizing system of any of claims 36-41 wherein the carriage further comprises an adjustment mechanism for moving the clamp laterally along the carriage.~~

~~43. The stabilizing system of claim 42 wherein depressing a release button of the clamp disengages the clamp from the adjustment mechanism of the carriage.~~

~~44. The stabilizing system of any one claims 42-43 wherein the adjustment mechanism comprises a worm drive that engages a pin of a traveler for attaching the clamp.~~

~~45. The stabilizing system of any one of claims 42–44 wherein the clamp further comprises a release lever for disengaging the clamp from the adjustment mechanism.~~

~~46. The stabilizing system of claim 45 wherein the release lever can be retained in a released condition.~~

~~47. The stabilizing system of any one of claims 45-46 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.~~

~~48. The stabilizing system of any one of claims 36-47 wherein the clamp further comprises a free rotate lever that can be moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.~~

~~49. The stabilizing system of any one of claims 36-48 wherein at least one of the first side wall and the second side wall of the table comprises alignment gaps for receiving alignment portions of at least one of the first retaining tabs and the second retaining tabs of the base plate.~~

~~50. The stabilizing system of any of claims 36-49 wherein the first and second side walls of the table comprise latching protrusions for retaining shoulders of the first and second retaining tabs of the base plate.~~

~~51. The stabilizing system of any of claims 36-50 wherein the base plate is configured to attach to two tables.~~

~~52.~~14. A stabilizing device for holding a medical device, the stabilizing device comprising:

a base plate having at least one rail extending upward;

a carriage moveably attached to the at least one rail of the base plate and is prohibited from moving away from the base plate by the at least one rail; and

a clamp for receiving the medical device, wherein the clamp is moveably attached to the carriage.

~~53.~~15. The stabilizing device of claim ~~52~~ 14 wherein the at least one rail of the base plate comprises a plurality of locking teeth for engaging a latch member of the carriage.

~~54.~~16. The stabilizing device of any one of claims ~~52~~ 14 and ~~53~~ 15 wherein the at least one rail of the base plate is received within a mounting channel of the carriage.

~~55.~~17. The stabilizing device of any one of claims ~~52-54~~14-16 wherein depressing a release button of the carriage enables the carriage to move laterally along the at least one rail.

~~56.~~18. The stabilizing device of any one of claims ~~52-55~~14-17 wherein depressing the release button of the carriage enables the carriage to be removed from the at least one rail.

~~57.~~19. The stabilizing device of any one of claims ~~52-56~~14-18 wherein:

the base plate comprises two mounting rails; and

the carriage comprises fixed and moveable retaining lips for securing the carriage between the two mounting rails.

~~58.~~20. The stabilizing device of any one of claims ~~52-57~~14-19 wherein the carriage further comprises an adjustment mechanism for moving the clamp laterally along the carriage.

~~59.~~21. The stabilizing device of claim ~~58~~ 20 wherein depressing a release button of the clamp disengages the clamp from the adjustment mechanism of the carriage.

~~60.~~22. The stabilizing device of any one of claims ~~58-59~~20-21 wherein the adjustment mechanism comprises a worm drive that engages a pin of a traveler for attaching the clamp.

~~61.~~23. The stabilizing device of any one of claims ~~58-60~~20-22 wherein the clamp further comprises a release lever for disengaging the clamp from the adjustment mechanism.

~~62.~~24. The stabilizing device of claim ~~61~~ 23 wherein the release lever can be retained in a released condition.

~~63.~~25. The stabilizing device of any one of claims ~~58-62~~20-24 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.

~~64.~~26. The stabilizing device of any one of claims ~~58-63~~20-25 wherein the clamp further comprises a free rotate lever that can be moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.

~~65. A stabilizing device for holding a medical device, the stabilizing device comprising:~~

~~a base plate having a clamp mounting channel;~~

~~a clamp for receiving the medical device, wherein the clamp is slidably disposed in the channel; and~~

~~wherein the clamp includes a foot that engages the channel to lock the position of the clamp relative to the base plate.~~

~~66. The stabilizing device of claim 65 wherein the channel comprises a first mounting rail and a second mounting rail.~~

~~67. The stabilizing device of claim 66 wherein the clamp includes a fixed mounting flange and a movable mounting flange.~~

~~68. The stabilizing device of claim 67 wherein the fixed mounting flange and the movable mounting flange are disposable in recesses in the first mounting rail and the second mounting rail.~~

~~69. The stabilizing device of claim 68 further comprising an actuator that is actuatable to retract the moveable mounting flange.~~

~~70. The stabilizing device of any one of claims 67-69 wherein the movable mounting flange is biased away from the fixed mounting flange.~~

71. The stabilizing device of any one of claims 65-70 further comprising an actuator actuatable to move the foot into engagement with the channel.

72. The stabilizing device of any one of claims 65-71 further comprising a cam for moving the foot into engagement with the channel.

73. The stabilizing device of any one of claims 65-71 wherein the foot is biased to a retracted position.

74. The stabilizing device of any one of claims 65-73 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.

75. The stabilizing device of any one of claims 65-74 wherein the clamp further comprises an actuator that can be actuated or moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.

76. A stabilizing system for holding a medical device, the stabilizing system comprising:

a base plate having a clamp mounting channel;

a clamp for receiving the medical device, wherein the clamp is slidably disposed in the channel; and

wherein the clamp includes a foot that engages the channel to lock the position of the clamp relative to the base plate;

a table comprising:

a platform comprising side walls for receiving first and second retaining tabs of the base plate; and

a plurality of legs for supporting the platform.

77. The stabilizing system of claim 76 wherein the channel comprises a first mounting rail and a second mounting rail.

78. The stabilizing system of claim 77 wherein the clamp includes a fixed mounting flange and a movable mounting flange.

~~79. The stabilizing system of claim 78 wherein the fixed mounting flange and the movable mounting flange are disposed in recesses in the first mounting rail and the second mounting rail.~~

~~80. The stabilizing system of claim 79 further comprising a latch button retracts the moveable mounting flange.~~

~~81. The stabilizing system of any one of claims 78-80 wherein the movable mounting flange is biased away from the fixed mounting flange.~~

~~82. The stabilizing system of any one of claims 76-81 further comprising a locking knob for moving the foot into engagement with the channel.~~

~~83. The stabilizing system of any one of claims 76-82 further comprising a cam for moving the foot into engagement with the channel.~~

~~84. The stabilizing system of any one of claims 76-82 wherein the foot is biased to a retracted position.~~

~~85. The stabilizing system of any one of claims 76-84 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.~~

~~86. The stabilizing system of any one of claims 76-85 wherein the clamp further comprises a free rotate lever that can be moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.~~

~~87. A stabilizing system for holding a medical device comprising:~~

~~a clamp mounting channel defined by first and second mounting rails;~~

~~a clamp for receiving the medical device, wherein the clamp is slidably disposed in the clamp mounting channel; and~~

~~wherein the clamp includes a foot that engages the channel to lock the position of the clamp in the channel.~~

~~88. The stabilizing system of claim 87 wherein the channel comprises a gripping strip for engaging the locking foot.~~

~~89. The stabilizing system of any one of claims 87-88 wherein the clamp includes a fixed mounting flange and a movable mounting flange.~~

~~90. The stabilizing system of claim 89 wherein the fixed mounting flange and the movable mounting flange are disposable in recesses in the first mounting rail and the second mounting rail.~~

~~91. The stabilizing system of claim 90 further comprising an actuator that is actuatable to retract the moveable mounting flange.~~

~~92. The stabilizing system of any one of claims 89-91 wherein the movable mounting flange is biased away from the fixed mounting flange.~~

~~93. The stabilizing system of any one of claims 87-92 further comprising an actuator actuatable to move the foot into engagement with the channel.~~

~~94. The stabilizing system of any one of claims 87-93 further comprising a cam for moving the foot into engagement with the channel.~~

~~95. The stabilizing system of any one of claims 87-93 wherein the foot is biased to a retracted position.~~

~~96. The stabilizing system of any one of claims 87-95 wherein the clamp comprises a fixed jaw and a moveable jaw that is biased in a closing direction toward the fixed jaw.~~

~~97. The stabilizing system of any one of claims 87-96 wherein the clamp further comprises an actuator that can be actuated or moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.~~

~~98. A clamp for holding a medical device, the clamp comprising:~~

~~a fixed jaw;~~

~~a movable jaw that is opened and closed by pivoting the moveable jaw relative to the fixed jaw;~~

a movable retaining flange extending from a first side of the clamp;

a fixed retaining flange extending from a second side of the clamp that is opposite the first side; and

a movable locking foot extending from a bottom of the clamp.

99. The clamp of claim 98 wherein the movable retaining flange includes a beveled edge.

100. The clamp of claim 98 further comprising an actuator that is actuatable to retract the moveable retaining flange.

101. The clamp of any one of claims 98-100 wherein the movable retaining flange is biased away from the fixed retaining flange.

102. The clamp of any one of claims 98-101 further comprising an actuator actuatable to move the foot into engagement with the channel.

103. The clamp of any one of claims 98-102 further comprising a cam for moving the foot into engagement with the channel.

104. The clamp of any one of claims 98-103 wherein the foot is biased to a retracted position.

105. The clamp of any one of claims 98-104 wherein the clamp further comprises an actuator that can be actuated or moved into an engaged condition where the clamp is partially opened to facilitate the rotation of the medical device within the clamp.

106. A clamp mounting channel of a stabilizing system comprising:

a first mounting rail;

a second mounting rail;

wherein the first mounting rail and the second mounting rail are configured to receive a clamp for holding a medical device, such that the clamp is slidably disposable in the clamp mounting channel between the first mounting rail and the second mounting rail, and such that a foot of the clamp can engage the clamp mounting channel to lock the position of the clamp in the clamp mounting channel.

~~107. The clamp mounting channel of claim 106 further comprising a gripping strip for engaging the locking foot.~~

~~108. The clamp mounting channel of any one of claims 106-107 further comprising recesses in the first mounting rail and the second mounting rail, wherein the recesses are configured to receive at least one of a first flange and a second flange of the clamp.~~

~~109. The clamp mounting channel of claim 108 wherein the recesses include top surfaces configured to engage the first flange and the second flange of the clamp when the locking foot presses down on the bottom of the clamp mounting channel such that the position of the clamp in the clamp mounting channel is locked.~~