Claims

1. An instrument tray assembly, comprising:

a tray cover having a plurality of wells,

a swivel base coupled to an instrument tray and configured to allow the instrument tray to rotate about an end of a support arm;

a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the instrument tray relative to the support arm, the swivel lever selectively providing a radially compressive force on a pin;

a first pivot connection on the support arm that selectively allows the support arm to pivot there about, the first pivot connection having a first pivot lever that selectively applies an axially compressive force to the first pivot connection; and

wherein, the tray cover is configured to be placed on the instrument tray,

further wherein, when the tray cover is placed on the instrument tray, one or more accessories are engaged by one of the plurality of wells and is secured to the instrument tray by the tray cover.

2. The tray assembly of claim 1, further wherein the tray cover has:

a bottom surface; and

a top surface,

wherein each of the plurality of wells is open to the top and bottom surfaces and has a wall, and, when the tray cover is placed on the instrument tray, each wall of the plurality of wells is spaced apart from the instrument tray.

3. The tray assembly of claim 1, further wherein the tray cover has one or more recesses.

4. The tray assembly of claim 1, wherein the tray cover has a first end and a second end, the tray cover further comprising:

two recesses, one recess of which is adjacent to the first end of the tray cover and the other recess of which is adjacent to the second end of the tray cover.

5. An instrument tray assembly for use during a medical procedure, the assembly comprising:

an instrument tray;

a tray cover having a plurality of wells, the tray cover configured to be placed on the instrument tray, and

a swivel base coupled to the instrument tray and configured to allow the instrument tray to rotate about an end of a support arm;

a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the instrument tray relative to the support arm, the swivel lever selectively providing a radially compressive force on a pin;

a first pivot connection on the support arm that selectively allows the support arm to pivot there about, the first pivot connection having a first pivot lever that selectively applies an axially compressive force to the first pivot connection;

wherein, when one or more accessories are positioned on the instrument tray and the tray cover is placed on the instrument tray, each of the one or more accessories is engaged by one of the plurality of wells and is secured to the instrument tray by the tray cover.

6. The assembly of claim 5, wherein the tray cover has a bottom surface and a top surface, and wherein each of the plurality of wells opens to the bottom and top surfaces, and, when the one or more accessories are positioned on the instrument tray and the tray cover is positioned on the instrument tray, each of the one or more accessories extends through one of the plurality of wells.

7. An instrument tray assembly for use during a medical procedure, the assembly comprising:

a base tray;

an instrument tray, the instrument tray configured to be positioned on the base tray;

a swivel base coupled to the instrument tray and configured to allow the instrument tray to rotate about an end of a support arm;

a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the instrument tray relative to the support arm, the swivel lever selectively providing a radially compressive force on a pin;

a first pivot connection on the support arm that selectively allows the support arm to pivot there about, the first pivot connection having a first pivot lever that selectively applies an axially

compressive force to the first pivot connection;

a tray cover having a plurality of wells, the tray cover configured to be positioned on the instrument tray; and

a locking mechanism configured to secure the tray cover to the base tray,

wherein, when one or more accessories are positioned on the instrument tray and the tray cover is positioned on the instrument tray, each of the one or more accessories is engaged by one of the plurality of wells and is secured to the instrument tray by the tray cover.

8. The assembly of claim 7, wherein the tray cover has a bottom surface and a top surface, and wherein each of the plurality of wells opens to the bottom and top surfaces, and, when the one or more accessories are positioned on the instrument tray and the tray cover is secured to the base tray, each of the one or more accessories extends through one of the plurality of wells and is secured to the instrument tray.

9. The assembly of claim 7, wherein the base tray and the instrument tray each have a peripheral edge, and wherein the peripheral edge of the base tray is configured to be flush with the peripheral edge of the instrument tray when the instrument tray is positioned on the base tray.

10. The assembly of claim 7, wherein the locking mechanism includes one or more brackets configured to prevent relative movement between the base tray, the instrument tray, and the tray cover.

11. An instrument stand assembly for use during a medical procedure, the assembly comprising:

a base;

a support arm extending from the base;

a base tray removably mounted to the support arm;

an instrument tray configured to be placed on the base tray;

a swivel base coupled to the instrument tray and configured to allow the instrument tray to rotate about an end of the support arm;

a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the

instrument tray relative to the support arm, the swivel lever selectively providing a radially compressive force on a pin;

a first pivot connection on the support arm that selectively allows the support arm to pivot there about, the first pivot connection having a first pivot lever that selectively applies an axially compressive force to the first pivot connection;

a tray cover having a plurality of wells, the tray cover being configured to be placed on the instrument tray; and

a locking mechanism configured to secure the tray cover and the instrument tray to the base tray,

wherein, when one or more accessories and the tray cover are positioned on the instrument tray and the tray cover is secured to the base tray, each of the one or more accessories is engaged by one of the plurality of wells and is secured to the instrument tray by the tray cover.

12. The assembly of claim 11, wherein the locking mechanism includes one or more brackets configured to prevent relative movement between the base tray, the instrument tray, and the tray cover.

13. The assembly of claim 11, wherein the tray cover has a bottom surface and a top surface, and wherein each of the plurality of wells opens to the bottom and top surfaces, and, when one or more accessories and the tray cover are positioned on the instrument tray and the tray cover is secured to the base tray, each of the one or more accessories extends through one of the plurality of wells.

14. The assembly of claim 11, wherein the base tray and the instrument tray each have a peripheral edge, and wherein the peripheral edge of the base tray is configured to be flush with the peripheral edge of the instrument tray when the instrument tray is positioned on the base tray.

15. The assembly of claim 11, further comprising:

a support pole extending from the base,

wherein the support arm is movably secured to the support pole.

16. The assembly of claim 11, wherein the support arm has a first end and a second end, the first end being coupled to the base and the support arm being configured to allow the second end to articulate relative to the first end.

17. The assembly of claim 16, wherein the support arm is configured to support one or more accessories and retain an orientation of the one or more accessories relative to the base when the second end articulates.

18. The assembly of claim 11, wherein the support arm is configured to support one or more accessories.

19. The assembly of claim 18, wherein the assembly further comprises:

an accessory holder coupled to the support arm configured to secure an accessory to the support arm.

20. The assembly of claim 19, wherein the accessory holder is a sharps disposal container holder.

21. The assembly of claim 19, wherein the accessory holder is a tissue box holder.

22. A method of securing one or more accessories to an instrument tray using a tray cover, the tray cover having a plurality of wells, the instrument tray having a swivel base coupled to the instrument tray and configured to allow the instrument tray to rotate about an end of a support arm, the method comprising:

manipulating a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the instrument tray relative to the support arm;

positioning the support arm through a first pivot connection on the support arm that selectively allows the support arm to pivot there about;

locking the support arm in position with a first pivot lever that selectively applies an axially compressive force to the first pivot connection;

positioning one or more accessories on the instrument tray;

positioning the tray cover on the instrument tray over the one or more accessories, each of the one or more accessories being engaged by one of the plurality of wells; and

securing the tray cover to the instrument tray using a locking mechanism to prevent relative movement between the one or more accessories and the instrument tray.

23. A method of securing one or more accessories to an instrument tray using a tray cover, the tray cover having a plurality of wells, the instrument tray having a swivel base coupled to the instrument tray and configured to allow the instrument tray to rotate about an end of a support arm, the method comprising:

manipulating a swivel lever rotationally coupled to the swivel base to selectively lock rotation of the instrument tray relative to the support arm;

positioning the support arm through a first pivot connection on the support arm that selectively allows the support arm to pivot there about;

locking the support arm in position with a first pivot lever that selectively applies an axially compressive force to the first pivot connection;

positioning one or more accessories on the instrument tray;

positioning the tray cover on the instrument tray over the one or more accessories, each of the one or more accessories being engaged by one of the plurality of wells;

positioning the instrument tray on a base tray; and

securing the tray cover to the base tray using a locking mechanism to prevent relative movement between the one or more accessories and the base tray.

24. The method of claim 23, wherein the base tray is coupled to the support arm, the method further comprising:

securing the base tray to the support arm.

25. The method of claim 24, further comprising:
securing one of the one or more accessories to the support arm.