CLAIMS

1. A delivery device for delivering a catheter into a catheter assembly, the delivery device comprising:

a housing having a proximal end, a distal end, and a slot;

a guide feature disposed within the housing, wherein the guide feature extends through the slot, wherein the guide feature comprises a channel, wherein the channel is generally U-shaped;

a catheter disposed within the housing extending through the channel that is generally U-shaped, wherein in response to movement of the guide feature along the slot in a distal direction, the catheter moves through the channel and a first end of the catheter is advanced in the distal direction, wherein a second end of the catheter is stationary with respect to the housing; and

a guidewire disposed within the catheter, wherein in response to movement of the guide feature along the slot in the distal direction, the guidewire and the catheter move together through the channel.

2. The delivery device of claim 1, wherein in response to movement of the guide feature along the slot in the distal direction a first distance, the first end of the catheter is advanced in the distal direction a second distance, wherein the second distance is greater than the first distance.

3. The delivery device of claim 1, wherein the first end of the catheter is advanced in the distal direction beyond the distal end of the housing in response to the guide feature being fully advanced along the slot in the distal direction.

4. The delivery device of claim 1, wherein the housing further comprises extension tubing extending outwardly from a distal portion of the housing, wherein the second end of the catheter is coupled to the extension tubing.

5. The delivery device of claim 1, wherein a first end of the guidewire is advanced in the distal direction beyond the distal end of the housing in response to the guide feature being fully advanced along the slot in the distal direction.

6. The delivery device of claim 1, wherein in response to movement of the guide feature along the slot in the distal direction a first distance, a first end of the guidewire is advanced in the distal direction a second distance, wherein the second distance is greater than the first distance.

7. The delivery device of claim 1, further comprising support tubing extending from the guide feature and coupled to the guide feature, wherein in response to movement of the guide feature along the slot in the distal direction a first distance, the catheter moves through the support tubing and a first end of the support tubing is advanced in the distal direction the first distance.

8. The delivery device of claim 1, wherein the channel is horizontally oriented within the housing.

9. The delivery device of claim 1, wherein the channel is vertically oriented within the housing.

10. The delivery device of claim 1, wherein a portion of the catheter between the second end of the catheter and the guide feature is generally parallel with a longitudinal axis of the delivery device.

11. The delivery device of claim 1, wherein a portion of the catheter between the second end of the catheter and the guide feature is angled with respect to a longitudinal axis of the delivery device.

12. The delivery device of claim 1, wherein a portion of the catheter between the first end of the catheter and the guide feature is parallel with a longitudinal axis of the delivery device.

13. The delivery device of claim 1, wherein a portion of the catheter between the first end of instrument and the guide feature is angled with respect to a longitudinal axis of the delivery device.

14. The delivery device of claim 1, wherein the guide feature further comprises an advancement tab configured to be moved by a hand of a user.

15. A delivery device for delivering a catheter into a catheter assembly, the delivery device comprising:

a housing having a proximal end, a distal end, and a slot;

a guide feature disposed within the housing, wherein the guide feature extends through the slot, wherein the guide feature comprises a channel, wherein the channel is generally U-shaped;

a catheter disposed within the housing extending through the channel that is generally U-shaped, wherein in response to movement of the guide feature along the slot in a distal direction, the catheter moves through the channel and a first end of the catheter is advanced in the distal direction, wherein a second end of the catheter is stationary with respect to the housing; and

a guidewire disposed within the catheter and the channel that is generally U-shaped, wherein the guidewire is spaced apart from the catheter such that blood flows between the guidewire and the catheter and through the channel; and wherein in response to movement of the guide feature along the slot in the distal direction, the guidewire and the catheter move together through the channel."