

CLAIMS

1. A delivery device for delivering an instrument into a catheter assembly, comprising:
a syringe having a barrel and a plunger movable within the barrel;
a guide feature disposed within the barrel and movable with the plunger, wherein the guide feature comprises a channel, wherein the channel is generally U-shaped; and
an instrument disposed within the barrel and extending through the channel, wherein in response to depression of the plunger, the guide feature moves in a distal direction, the instrument moves through the channel, and a first end of the instrument is advanced in the distal direction, wherein a second end of the instrument is fixed.
2. The delivery device of claim 1, wherein the instrument comprises a catheter or a probe.
3. The delivery device of claim 1, wherein the barrel comprises a liquid, wherein in response to the depression of the plunger, the liquid exits a distal opening of the syringe, wherein a diameter of the distal opening of the syringe is greater than an outer diameter of the instrument.
4. The delivery device of claim 1, wherein the second end of the instrument is fixed within the barrel.
5. The delivery device of claim 1, further comprising an interface adapter coupled to the syringe, wherein the second end of the instrument is fixed within the interface adapter.
6. The delivery device of claim 1, wherein in response to the depression of the plunger, the guide feature is moved in the distal direction a first distance, and the first end of the instrument 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, wherein the first end of the instrument is advanced in the distal direction beyond a distal end of the syringe in response to the plunger being partially or fully depressed.
8. The delivery device of claim 1, wherein the syringe further comprises extension tubing extending outwardly from a distal portion of the syringe, wherein the second end of the instrument is coupled to the extension tubing, wherein the instrument comprises a catheter.
9. The delivery device of claim 1, wherein the instrument comprises a catheter, further comprising a guidewire disposed within the catheter, wherein in response to the depression of the plunger, the guidewire and the catheter move through the channel and a first end of the guidewire is advanced in the distal direction, wherein a second end of the guidewire is fixed.
10. The delivery device of claim 9, wherein the first end of the guidewire is advanced in the distal direction beyond a distal end of the syringe in response to the plunger being partially or fully depressed.
11. The delivery device of claim 9, wherein in response to the depression of the plunger, the guide feature is moved in the distal direction a first distance, and the first end of the guidewire is advanced in the distal direction a second distance, wherein the second distance is greater than the first distance.
12. 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 the depression of the plunger, the guide feature is moved in the distal direction a first distance, the

instrument moves through the support tubing, and a first end of the support tubing is advanced in the distal direction the first distance.