WHAT IS CLAIMED:

1. An aspiration catheter, the catheter comprising a catheter body having a lumen; and a tip comprising a plurality of engagement extensions at a distal end of the tip, a support ring, and a frame comprising a first helical frame and a second helical frame, wherein the frame connects connecting the plurality of engagement extensions to the support ring, wherein the tip is connected to a distal portion of the catheter body, wherein the plurality of engagement extensions has a gap in between each engagement extension, and wherein at least one engagement extension of the plurality of extensions is configured to move independently of other extensions of the plurality of extensions.
2. The catheter of claim 1, wherein the frame is radially flexible.
3. The catheter of claim 1 or 2, wherein a distance of the gap affects an angle that the at least one engagement extension is capable of moving.
4. The catheter of any one of preceding claims, wherein the at least one engagement extension is petal-shaped, lobe-shaped, or wing-shaped, or a combination thereof.
5. The catheter of any one of preceding claims, wherein the at least one engagement extension is configured to move at or near the frame.
6. The catheter of any one of preceding claims, wherein the material of the extensions allows the extensions to resiliently flex or deform when contacting an object in a vessel of a subject.
7. The catheter of any one of preceding claims, wherein at least one engagement extension is configured to move when engaging an object in a vessel of a subject.
8. The catheter of any one of preceding claims, wherein at least one of the first helical frame and second helical frame is configured to compress axially when engaging with an object in a vessel of a subject.
9. The catheter of any one of preceding claims, wherein the support ring comprises a plurality of proximally-extending projections.
10. The catheter of any one of preceding claims, wherein the frame is surrounded by an elastic polymer.

11. The catheter of claim 11, wherein the plurality of engagement extensions is surrounded by the elastic polymer.
12. The catheter of any one of preceding claims, wherein the tip comprises nickel titanium alloy.
13. The catheter of any one of preceding claims, wherein the frame is axially compressible.
14. The catheter of any one of preceding claims, wherein the lumen of the catheter body is configured to receive a guide catheter.
15. The catheter of any one of preceding claims, wherein the catheter is configured for transiting an intracranial vasculature.
16. The catheter of any one of preceding claims, wherein the at least one engagement extension comprises a radiopaque marker.
17. The catheter of any one of preceding claims, wherein a fluid impermeable coating is over the at least one engagement extension.
18. The catheter of any one of preceding claims, wherein the tip comprises a plurality of struts, wherein adjacent struts are coupled to each other at a node.
19. The catheter of claim 18, wherein the plurality of struts form a plurality of parallelograms extending circumferentially to form the shape of a cylinder.
20. The catheter of any one of preceding claims, wherein the at least one engagement comprises at least a first extension strut extending in a plane perpendicular to an axis of the tip when the tip is in a neutral state.