Claims

1. A catheter assembly (1400) comprising:

a needle (10);

a catheter hub (1402); and

a catheter (18) connected to the catheter hub (1402) and surrounding the needle (10), wherein the needle (10) comprises:

a needle tip (14) formed from a first rigid material, the needle tip (14) comprising a bevel (30) for puncturing a subject; and

a needle shaft (12) comprising a second material,

wherein the needle tip (14) is separately formed and subsequently attached to the needle shaft (12) to form the needle (10); and

wherein the second material is a light permeable material to enable visible detection of primary flashback in the needle shaft (12).

2. The catheter assembly (1400) of claim 1, wherein the first material has higher rigidity than the second material.

3. The catheter assembly (1400) of claim 1 or 2, wherein the first material is a metal and/or the second material is a plastic.

4. The catheter assembly (1400) of any one of the preceding claims, wherein the second material is transparent or translucent.

5. The catheter assembly (1400) of any one of the preceding claims, wherein the needle tip (14) is attached to the needle shaft (12) through a coupling (85), wherein the coupling (85) preferably comprises:

one or more indentations on one of the needle shaft (12) and the needle tip (14); and, for each indentation,

a protrusion on the other one of the needle shaft (12) and the needle tip (14), and arranged to be received in the indentation, thereby to couple the needle tip (14) to the needle shaft (12) and/or

the coupling (85) preferably comprises:

one or more apertures (702) on one of the needle shaft (12) and the needle tip (14); and

for each aperture (702), a protrusion (704) on the other one of the needle shaft (12) and the needle tip (14), and arranged to be received in the aperture (702), thereby to couple the needle tip (14) to the needle shaft (12).

6. The catheter assembly (1400) of any one of the preceding claims, wherein the needle tip comprises an aperture to form a window for viewing primary flashback.

7. The catheter assembly (1400) of any one of the preceding claims further comprising:

a needle hub (16); and

a tether (506) connected between the needle tip (14) and needle hub (16), to couple the needle tip (14) to the needle hub (16).

8. The catheter assembly (1400) of any one of the preceding claims, wherein the needle shaft (12) comprises a marking (32), the marking (32) being located on the needle shaft (12) to be visible during primary flashback.

9. The catheter assembly (1400) according to claim 8, wherein the catheter (18) is transparent or translucent and the marking (32) is obscured by bodily fluid between the catheter and needle shaft during secondary flashback.

10. The catheter assembly (1400) according to any one of the preceding claims, wherein the needle hub (16) is integrally formed with the needle (10).