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(71) Applicant: **TRIMPH IP PTY LTD** [AU/AU]; Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU).

(72) Inventors: **FATHI, Ali**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU). **OVEISSI, Farshad**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU). **ABRAMS, Terence**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Mar-

tin Place, Sydney, New South Wales 2000 (AU). **KNOX, Will**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU). **MALEKNIA, Simin**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU). **CATT, Jules**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU). **DRUMMOND, Jamie**; c/o Trimph IP Pty Ltd, Suite 5307, Level 53, 19-29 Martin Place, Sydney, New South Wales 2000 (AU).

(74) Agent: **SPRUSON & FERGUSON**; GPO BOX 3898, Sydney, New South Wales 2001 (AU).

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(54) Title: A THERMORESPONSIVE INJECTABLE HYDROGEL FOR INTRAVASCULAR ADMINISTRATION

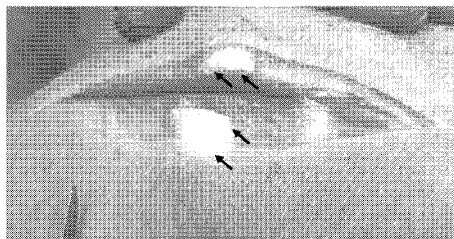
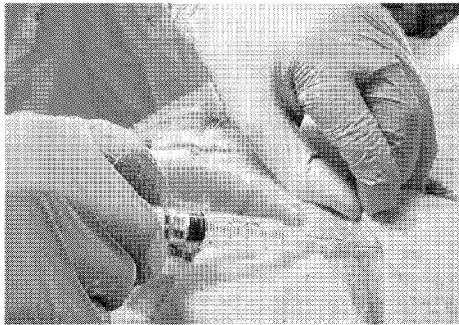


Figure 1(a)

(57) Abstract: Disclosed herein is a flowable polymer solution for intravascular (arterial and venous) administration comprising the polymer and at least one solvent, the polymer comprising a first monomer for binding water; a second monomer for imparting mechanical properties; optionally, a third monomer for binding to a natural or synthetic peptide or protein (NSPP); and a fourth monomer for imparting thermoresponsive phase-transition behaviour. In an embodiment, the solution further comprises at least one radiographic intravenous contrast agent is selected from contrast media for digital subtraction angiography (DSA), computer tomography (CT) and fluoroscopy such as iodinated contrast media, tantalum, and bismuth-based materials (e.g., bismuth chelate), heavy metal chelates contrast media for MRI including gadolinium agents (e.g., gadobutrol) or MRI nanoparticles.

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