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- (71) **Applicant: HYPERTUNNEL IP LIMITED** [GB/GB];
Viewpoint, Basing View, Basingstoke Hampshire RG21
4RG (GB).
- (72) **Inventor: MEEKS, Alan;** HyperTunnel Ltd, Viewpoint,
Basing View, Basingstoke Hampshire RG21 4RG (GB).
- (74) **Agent: HANDSOME I.P. LTD;** 27-28 Monmouth Street,
Bath Bath and North East Somerset BA1 2AP (GB).

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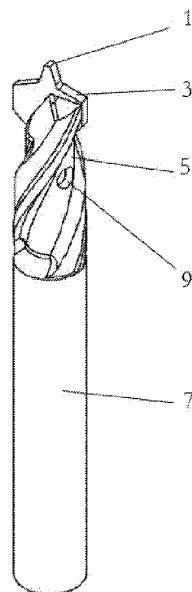
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(54) **Title:** INTEGRATED DRILLING INJECTION AND EXTRACTION DEVICE AND METHOD

[Fig. 11]



(57) **Abstract:** The present invention provides an integrated drilling and injection device, comprising: a longitudinal shank (7) having an internal passage extending from an open first end of the shank (7) along an axis of the shank (7) toward a second end of the shank; a drill bit (3) located at a second end of the shank (7) opposite the first end; and at least one outlet (9) in fluid communication between the internal passage and an exterior surface of the shank (7). In this way, the device may be driven into a substrate and then fluid may be injected into the substrate by passing along the internal passage and through the at least one outlet (9), without first having to remove the device and replace it with a separate injection component.

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