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(54) Title: SURGICALLY INVASIVE POINTED ARTICLES FOR SKIN PENETRATION AND METHODS FOR THEIR PREPARATION

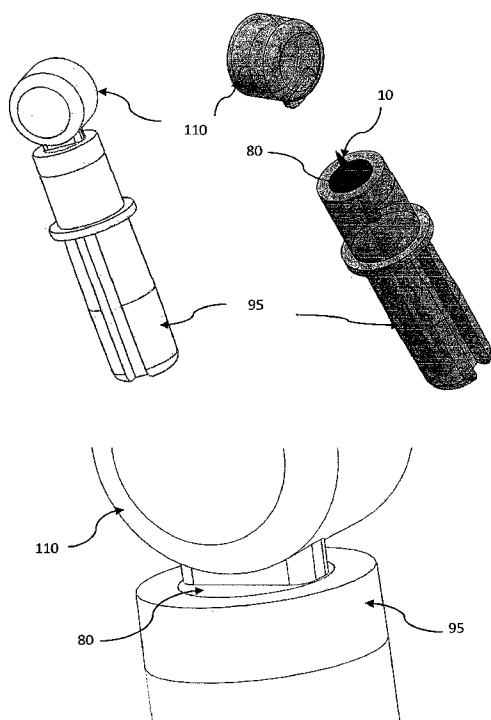


Fig. 6

(57) Abstract: A surgically invasive pointed article for skin penetration and its fabrication method are presented. The present invention comprises a protruding sharp end portion and a body portion, the protruding sharp end portion comprising at least one penetration tip that can be disabled after use. The tip disablement after use is an effective safety measure in eradicating accidental injuries and re-use. The tip disablement can be carried out manually by the user or automatically if the article is used with a custom-made tip-disabling applicator. The skin penetration device can be used as a lancet for blood sampling, a needle for immunization and skin allergy testing, or a skin breaching device for transdermal drug delivery. The second aspect of the invention is a method for preparing the surgically invasive pointed article for skin penetration. The preparation method includes injection mould the articles into at least two body segments, the first body segment comprising at least one protruding end for skin penetration, and the second body segment being hollow forming a handle for handling purpose or an adaptor for fitting into an applicator. The third aspect of the invention is an over-moulding process for packaging purposes, wherein the articles moulded with a first material mentioned above are over-moulded with a second softer and cheaper material to form various additional functional parts.



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