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(51) International classification	:A61M 19/00, A61M 5/31, A61M 5/315, A61M 5/32, A61M 5/178	(71)Name of Applicant : <b>1)JSS Academy of Higher Education &amp; Research</b> Address of Applicant :SRI SHIVARATHREESHWARA NAGARA, MYSURU, KARNATAKA - 570015 Mysuru Karnataka India
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(57) Abstract :

**ABSTRACT GLIDE-A-JECT: CHILD-FRIENDLY LOCAL ANAESTHETIC DELIVERY DEVICE** The invention discloses a compact, integrated local anesthetic delivery device (LADD) specifically designed for pediatric and needle-phobic patients to eliminate visual fear cues and improve clinical cooperation. The device features a structurally re-engineered syringe body with a reduced longitudinal profile of 3 inches and an increased barrel diameter, facilitating a 2 mL capacity while enabling 100% concealment within a soft toy interface. Central to the invention is a multi-functional, medical-grade silicone sheath comprising engineered axial folds and a Shore A hardness of 10–30A, allowing the sheath to collapse predictably under an axial force of 2–5 N. The distal terminus integrates an absorbent polyurethane foam applicator tip for pre-injection topical desensitization. This synergistic design allows for a seamless transition from surface numbing to needle penetration through the foam tip in a single motion, ensuring the needle remains hidden throughout the procedural sequence. Fig. 1

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