

# Flexi Filler

Domain: Dental Instrument

## Unmet Need & Opportunity

- Current bone grafting application systems lack flexibility in their applicator tip angles, making it difficult for dentists to access deep, narrow, and complex intraoral bone defects.
- Fixed-angle designs limit maneuverability, leading to suboptimal graft placement and procedural inefficiencies.
- This gap in existing technology creates an opportunity for a more adaptable and precise delivery system that enhances accuracy, ease of use, and clinical outcomes.

## Stage of Development

TRL: 3

A working prototype of the bone graft applicator is developed and tested in a laboratory setting. The device shows that it can apply bone graft material in a controlled manner, based on early engineering designs.

## Applications / Use case

- **Dental Implant Procedures:** Enhances bone graft placement in peri-implant defects to support successful implant integration.
- **Periodontal Surgeries:** Facilitates precise bone graft delivery in cases of severe gum disease and bone loss.

## Technology Description

- **Adjustable tip technology** for precision in application.
- **Combination of durable materials (stainless steel & fiber)** to ensure strength and flexibility.
- **Scalability potential** for adaptation in various surgical fields beyond dentistry.
- **Ergonomic enhancements** for better handling and visualization during procedures.

## Market Scope

It's unique design, has potential applications in routine and complex dental procedures, positioning it as a valuable upgrade in **bone grafting device market**.

The global bone grafts and substitutes market size was estimated at USD 3.16 billion in 2024 and is estimated to grow at a CAGR of 6.6% from 2025 to 2030

## Value Proposition

- **Greater control and maneuverability**, leading to more effective bone grafting.
- **Enhanced procedural accuracy** for better graft integration.
- **Improved accessibility** to deep and narrow bone defects.
- **A user-friendly design** that expands treatment possibilities for complex cases.

## IP Status

Indian Patent: **IN517327** (Priority date/Filing date: 12/09/2022)

## Transaction Opportunity

Exclusive, Non-Exclusive Licensing, Option License Agreement (co-develop or collaboration for further validation) & Assignment Transfer

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