ORTHODONTIC DUPLEX PLIERS
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HINTERGRUND

In orthodontics, there is a multitude of intraoral devices and wires that can be activated by bending. However, due to restricted access, wire bending is often difficult if not impossible, especially in the palatine region and lingual of the mandible. Moreover, in many cases mirror-inverted pliers would be necessary for respective bending on the other side of the oral cavity.

PROBLEMSTELLUNG

So far, there are no orthodontic pliers available, that enable ergonomic wire bending on both sides of the oral cavity.

LÖSUNG

The present invention solves this problem by connecting the two handles with an olong hole system. According to the invention, the one-prong branch can be swiveled to the other side of the two-prong branch, thus allowing mirror-inverted application. A locking mechanism is activated when the pliers are closed to prevent accidental shifting of the branches. Another aspect of the invention is an convenient working angle between branches and handle, which facilitates intraoral application.

VORTEILE

- Enables wire bending on both sides of the oral cavity
- Applicable also in difficult accessible regions
- Suitable for wires up to 1.1 mm
- Ergonomic handling
- Attractive and modern design

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ENTWICKLUNGSSTAND

Prototyp

CATEGORIES

//Zahnmedizin //Medizintechnik
ANWENDUNGSBEREICHE

The novel orthodontic duplex pliers enable bending of wires up to 1.1 mm in all dimensions and are easily applicable even in difficult accessible areas on both sides of the oral cavity.

SERVICE

On behalf of the Heinrich-Heine-Universität Düsseldorf, PROvendis offers access to rights for commercial use as well as the opportunity for further co-development. A design model is available for demonstration. In case of interest, we are pleased to inform you about the current patent status.