



Short Communication

“A” – Two way device

Anand Garabadu ^{1*}

¹Dept. of Orthodontics, Utkal University, Bhubaneswar, Odisha, India



ARTICLE INFO

Article history:

Received 23-08-2022

Accepted 25-11-2022

Available online 02-01-2023

ABSTRACT

As Orthodontists, the most common procedure we practise on a daily basis is Bonding. As we all know bracket positioning is very important for getting a desired result in correction of malocclusion. The instrument used in the procedure is known as Boone guage. This instrument assures the clinician to properly position the brackets during the bonding procedure.

The other instrument which is used popularly to engage the modules/O- rings in a crowded or severely malaligned arch is Tucker. If these two instrument are purchased can cost approximately Rupees five hundred to two thousand. Since the introduction of novel severe acute respiratory syndrome coronavirus -2 and its spread through the world, dentist, in general are at high risk. So sterilization is of utmost importance and instead of sterilizing two instrument, here we can do it on one which is timesaving and user friendly.

The concept of fabricating this instrument is avoid buying costly instrument. The spatula used for fabrication is plastic and is safe for use and can be sterilized.

This is an Open Access (OA) journal, and articles are distributed under the terms of the [Creative Commons Attribution-NonCommercial 4.0 International](https://creativecommons.org/licenses/by-nc/4.0/), which allows others to remix, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

For reprints contact: reprint@ipinnovative.com

1. Introduction

As Orthodontists, the most common procedure we practise on a daily basis is Bonding. As we all know proper and accurate bracket positioning is very important for getting a desired result in correction of malocclusion. The instrument used in the procedure is known as Boone guage. It helps the clinician to locate the correct area for bracket positioning and thus assures the clinician to properly position the brackets during the bonding procedure.

In routine orthodontic practise we use nickel titanium wire for aligning dentition and it is often difficult or cumbersome to do it. So, we use a tucker to perform the desired task. Tucker is a two sided instrument which has a central notch on either side to engage the archwire onto the bracket slot while ligating.¹

Since the introduction of novel severe acute respiratory syndrome coronavirus -2 and its spread through the world, dentist, in general are at high risk. So sterilization is of utmost importance and instead of sterilizing two instrument, here we can do it on one which is timesaving and user friendly.

In these innovation we have tried to design an instrument which can perform the work of both the instruments and can be made or fabricated very easily by all. The cost for fabricating this device is surprisingly very cheap.^{2,3}

2. Armamentarium

1. Agate Spatula
2. Hand piece and straight bur
3. Surgical blade with handle
4. Markers (4 colours)

* Corresponding author.

E-mail address: anandreetig@gmail.com (A. Garabadu).

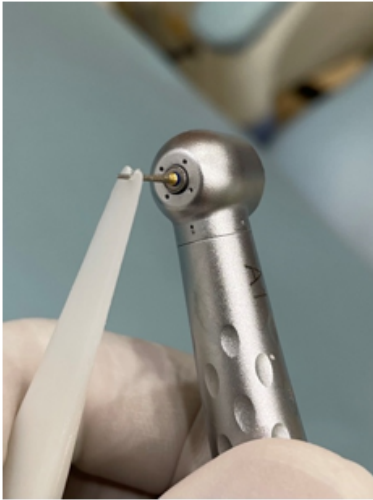


Figure 1:

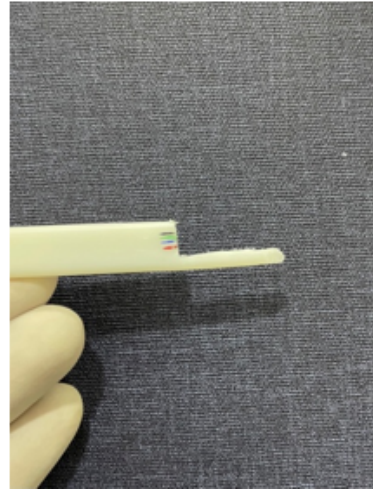


Figure 4:

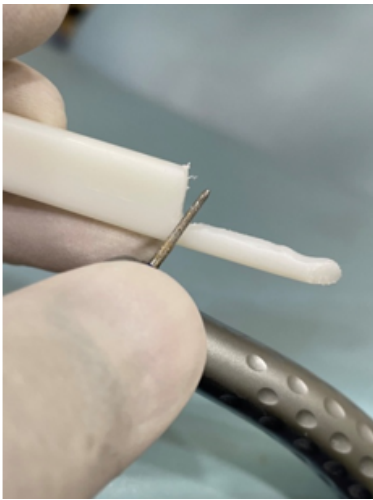


Figure 2:

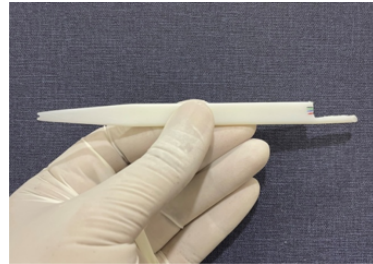


Figure 5:



Figure 3:



Figure 6:

3. Steps in Construction

An Agate spatula is taken and a small cut is placed at the conical edge or tip of the spatula(Figure 1). The other blunt area/side of the spatula is cut in a 90 degree pattern. With the help of a straight bur (Figure 2). Surgical blade is used to make the cut surface smooth(Figure 3). With the help of marker, the markings as seen in Boone guage are done(Figure 4).

Once done, the instrument is ready to use with two ends working as Tucker and the other as Boone guage independently as shown in Figure 5. Clinical implication is seen in Figure 6.

4. Advantage

1. Very cost effective
2. Can be autoclaved
3. Is easy to fabricate
4. Light weight

5. Source of Funding

None.


6. Conflict of Interest

None.

References

1. Shastri D, Tandan P, Singh A, Sharma VK. Modified tweezer (M-Tweezer): a convenient way for ligating of open coil spring. *J Ind Orthod Soc.* 2014;48(4):282–3.
2. Joong H. Kim inventor; orthodontic Tweezers with a guage.US patent 5868787 A; 1999. Available from: <https://patents.google.com/patent/US5868787A/en>.
3. Ekka SB, Bhatt S, Shukla C, Rauthor S, Gajadowda J. A modified bracket holder which can also be used as a tucker. *Jind Orthod Soc.* 2013;47(4):232. doi:10.5005/jp-journals-10021-1164.

Author biography

Anand Garabadu, Professor  <https://orcid.org/0000-0002-5355-6358>

Cite this article: Garabadu A. “A” – Two way device. *J Contemp Orthod* 2022;6(4):196-198.