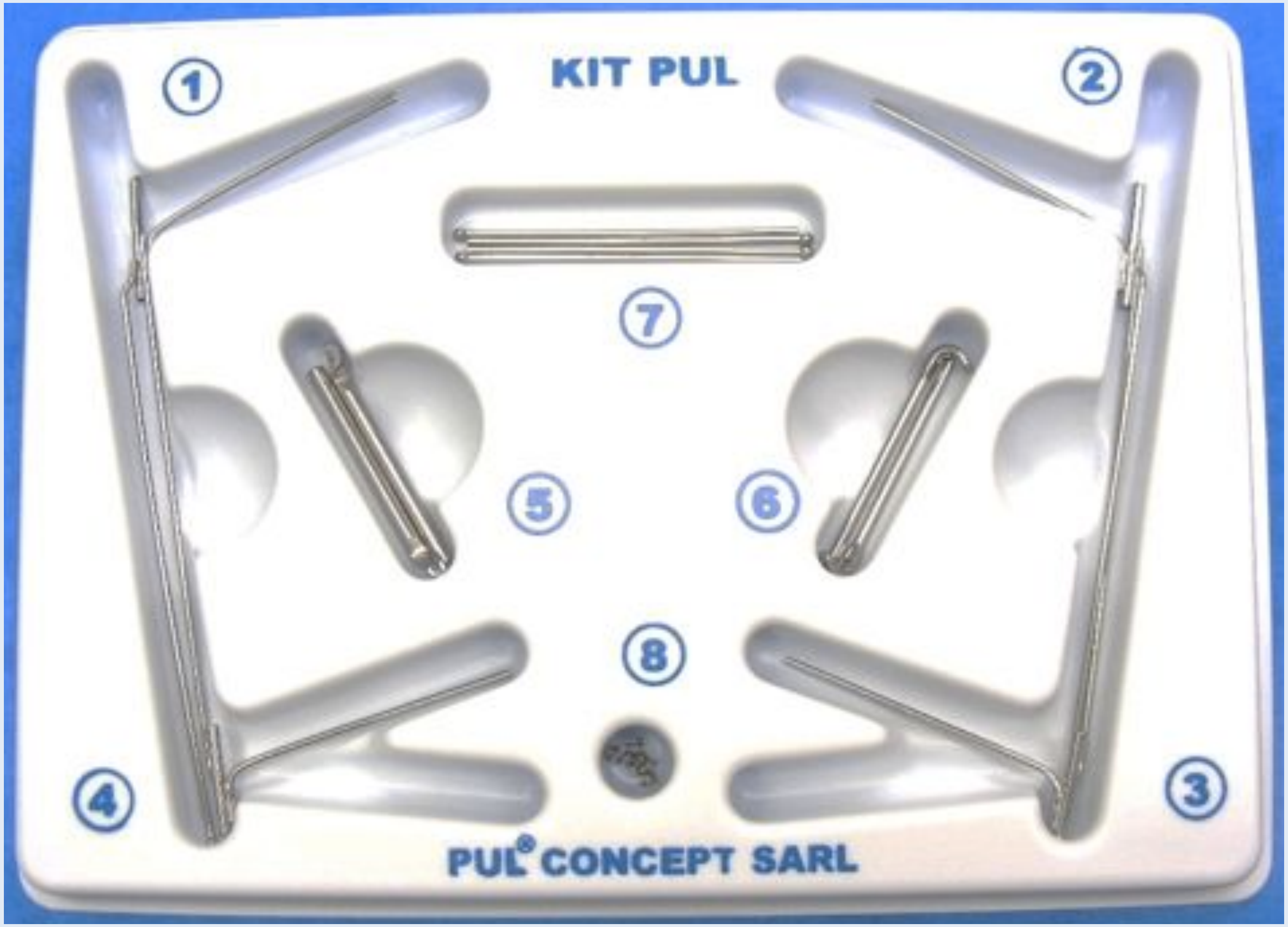
The P.U.L Concept
4D harmonizer
Quality Control by orthodontist



FINITION AND CONTROL

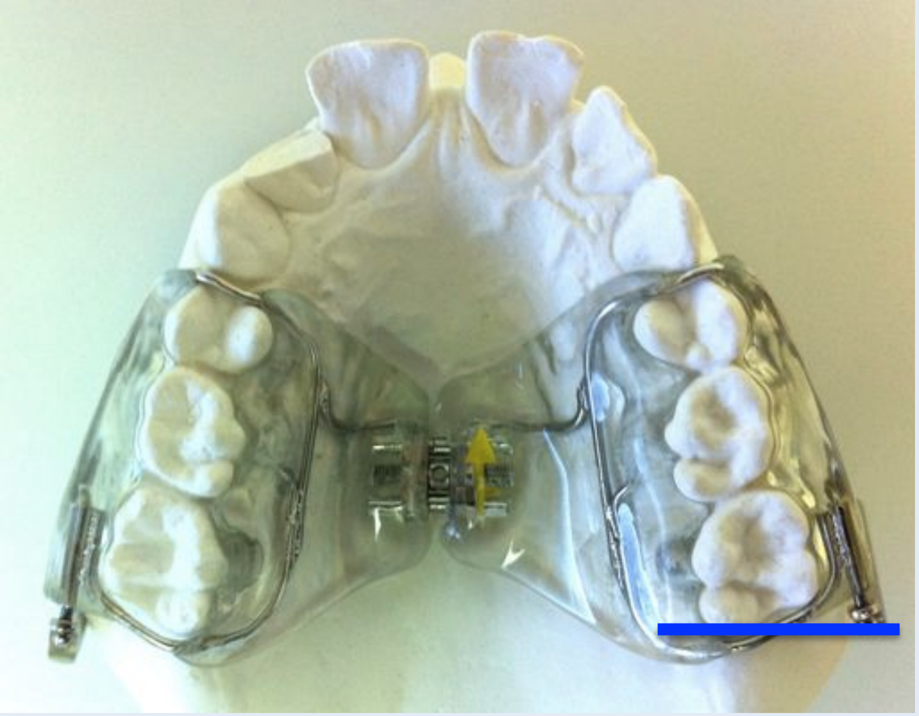
Control the free movements on the articulator : symmetry, laterality and aperture without blockage.

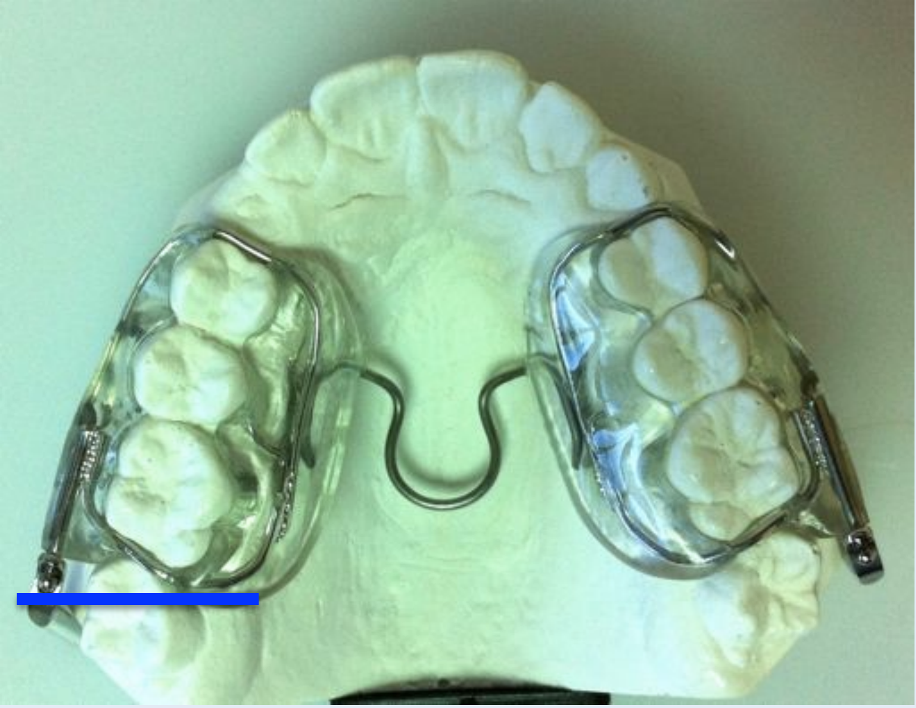
Not good

Good

Not good

Good



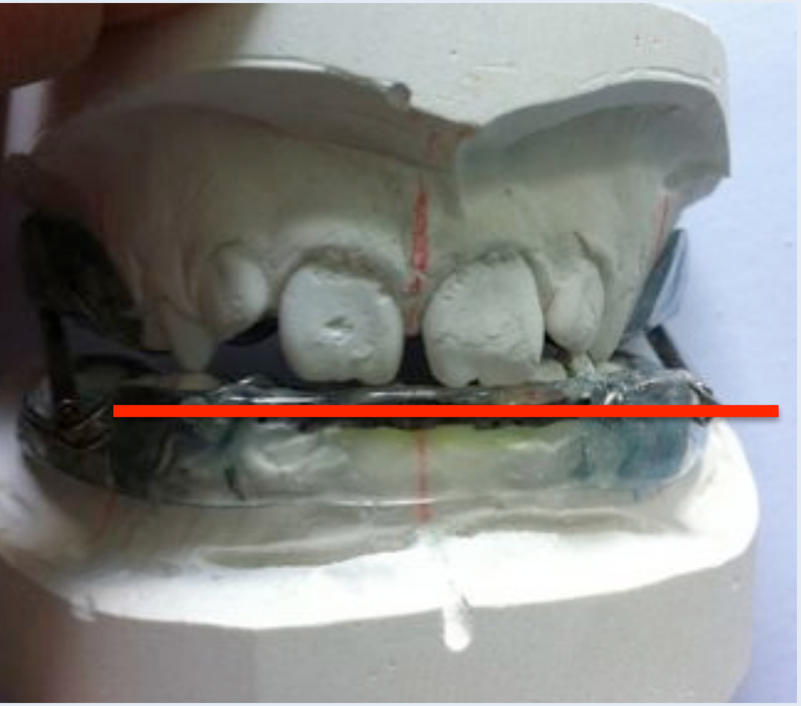


Posterior limit of the structure:

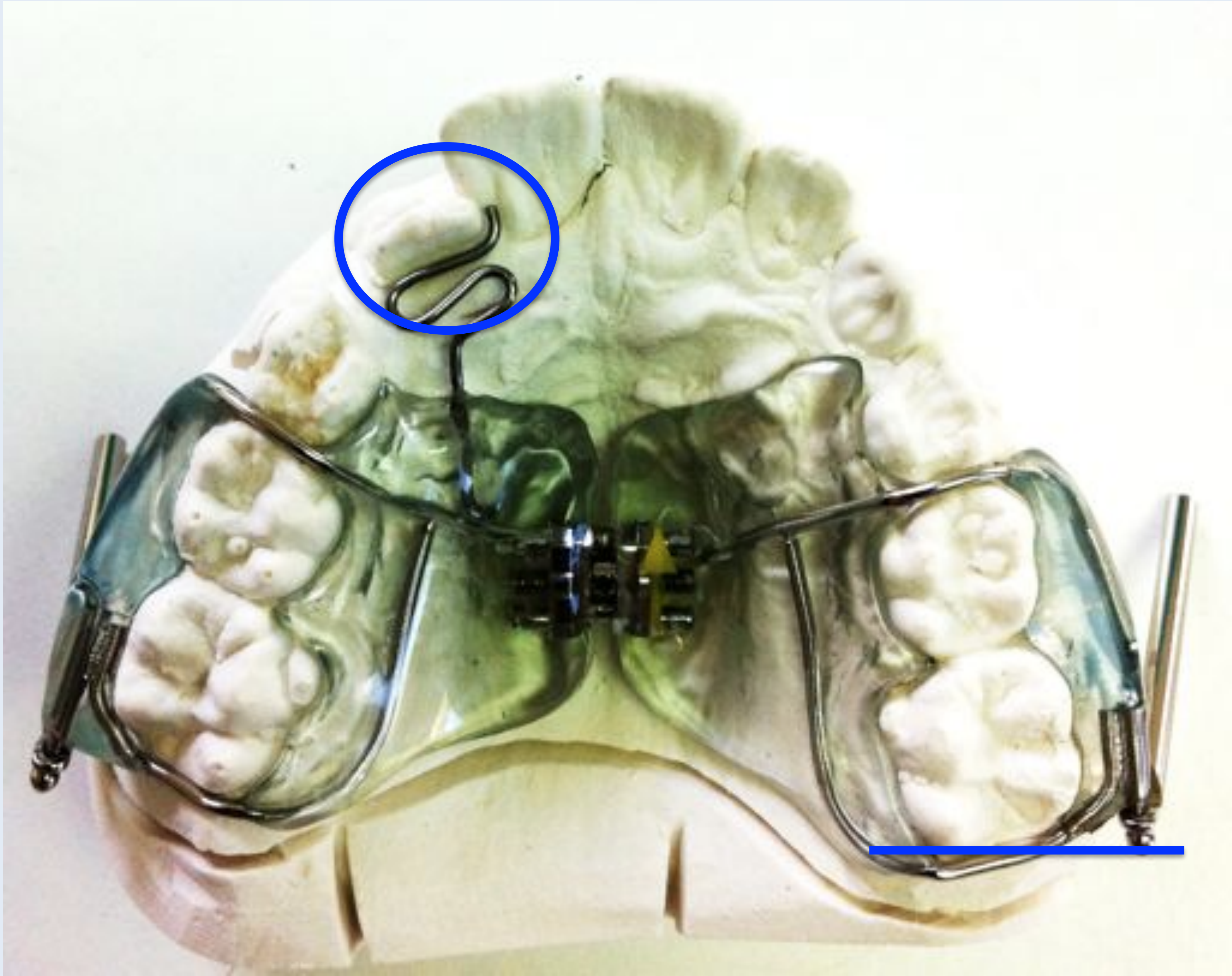
No second molar

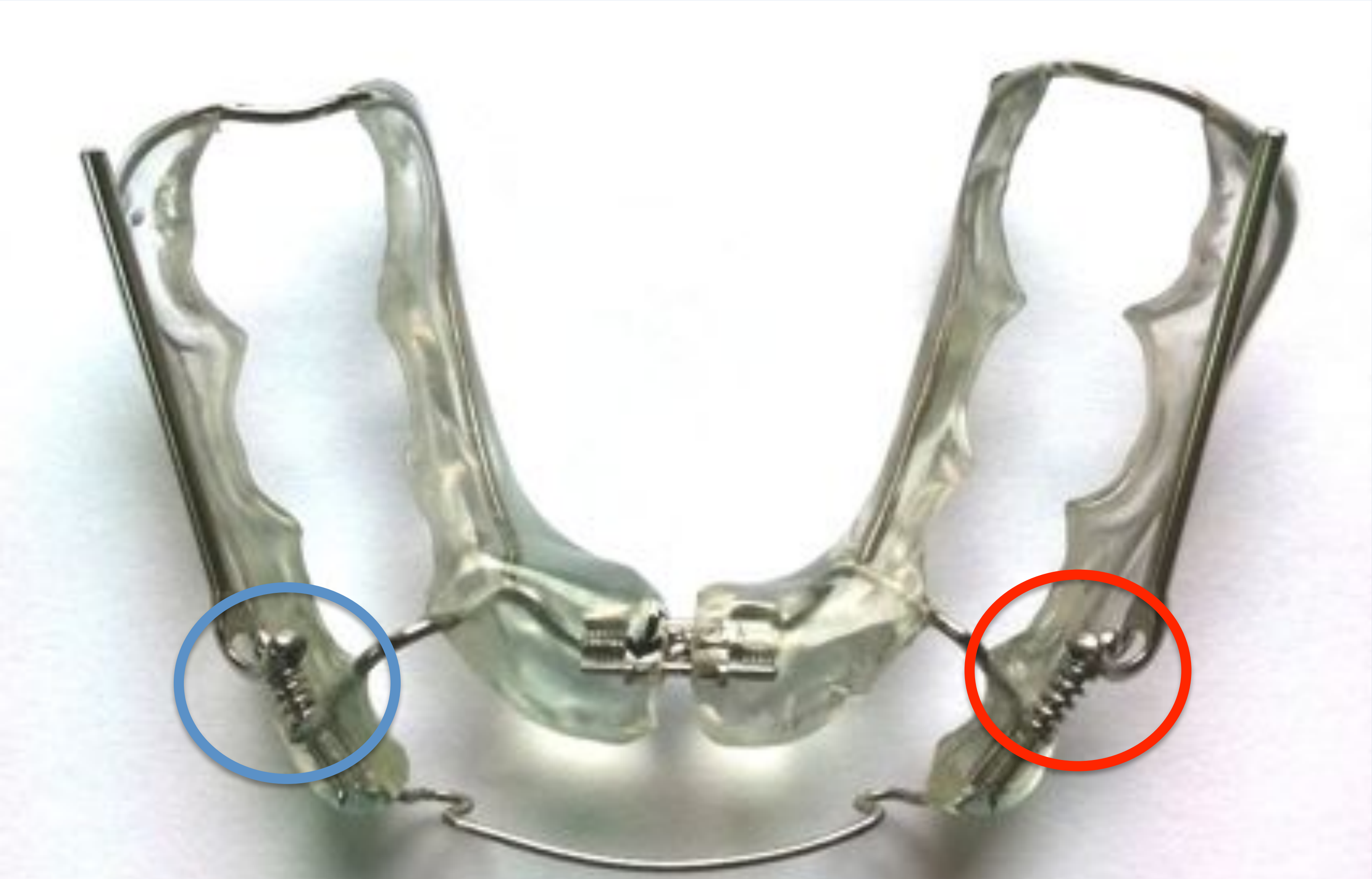
With second molar

Not good : risk of breakage



Prefer the metal buccal arch

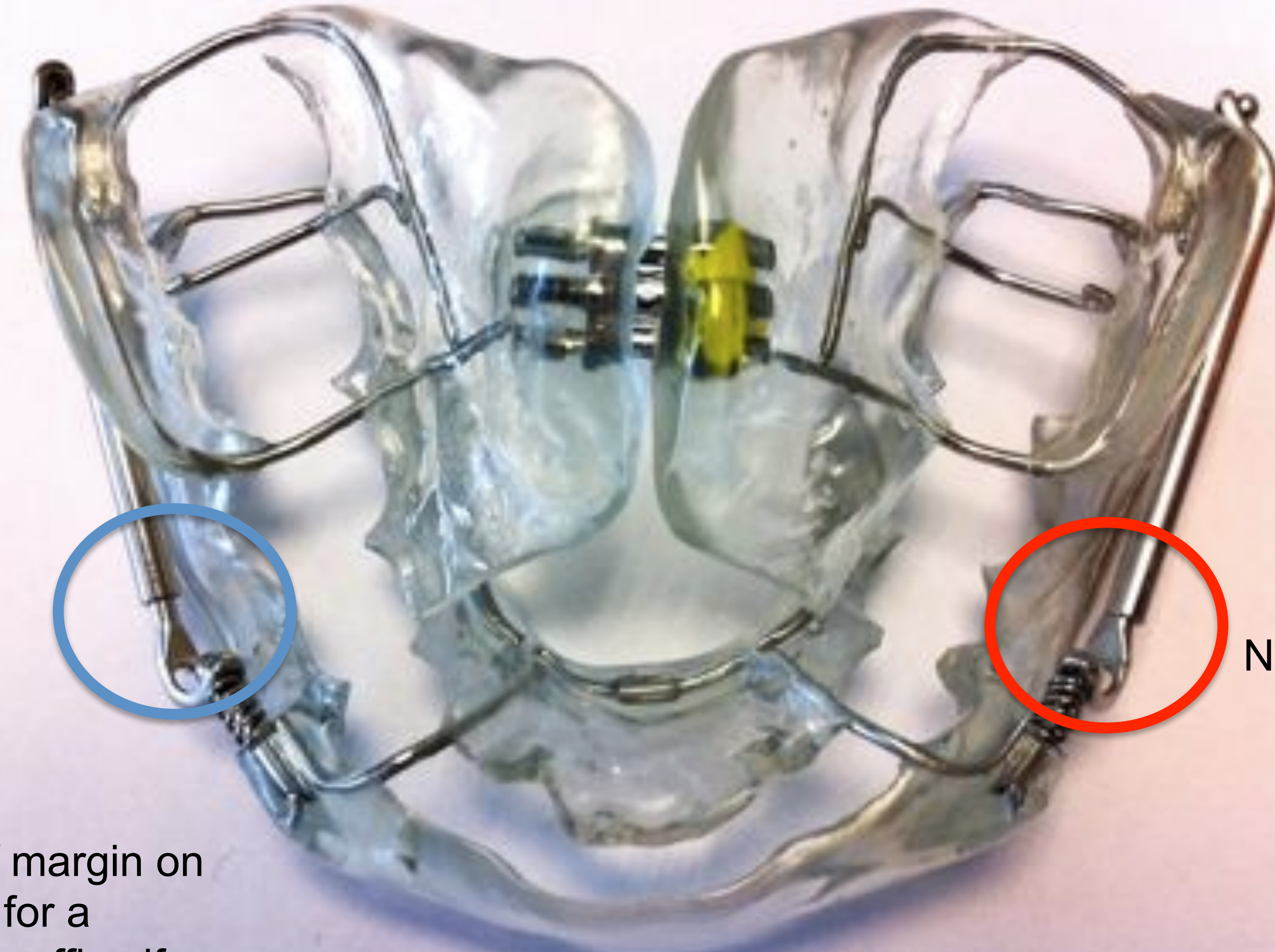




Good: Pin ball 4mm
Coil spring compressed

Not good :pin ball too long 6mm
Coil spring not compressed

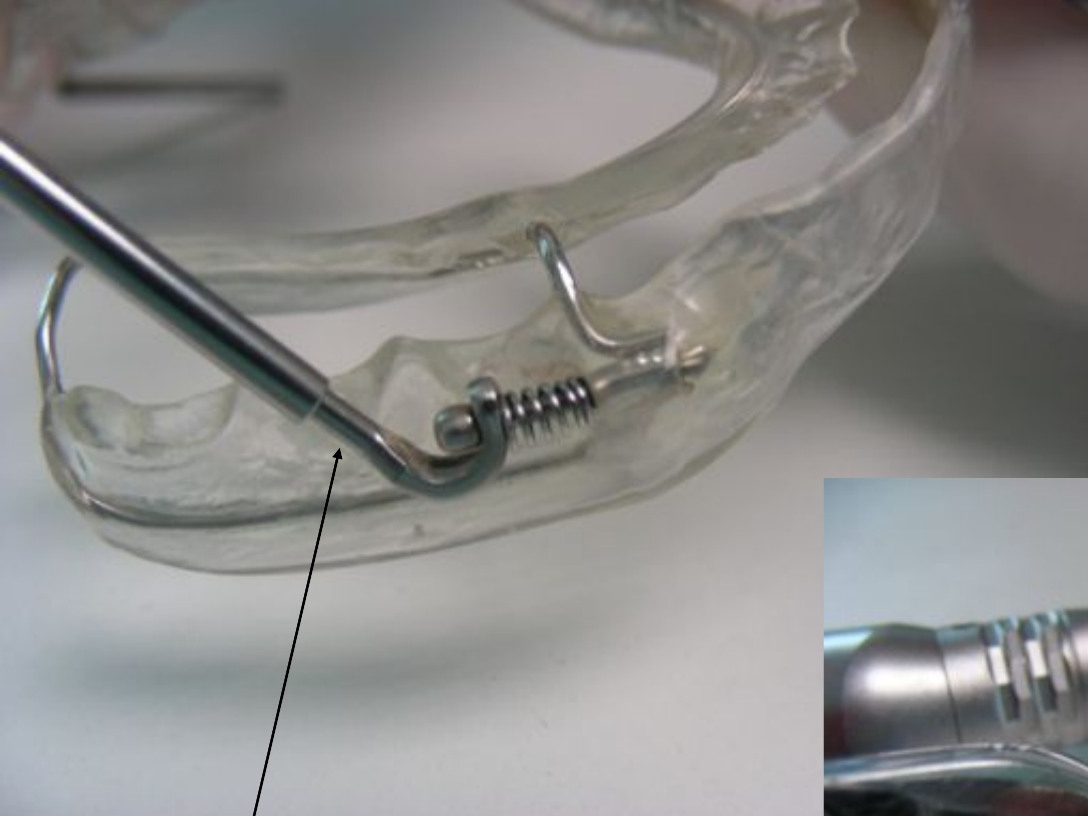
Pin ball too long = breakage



Good

Not good

Keep 2mm of margin on the lower rod for a possible cut in office if necessary

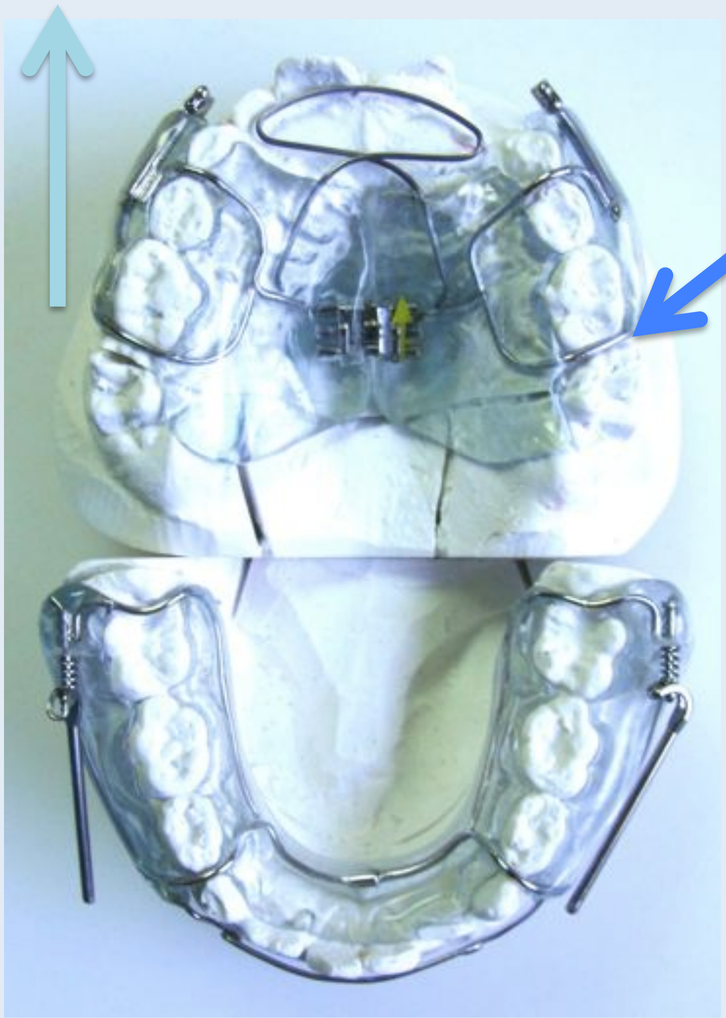


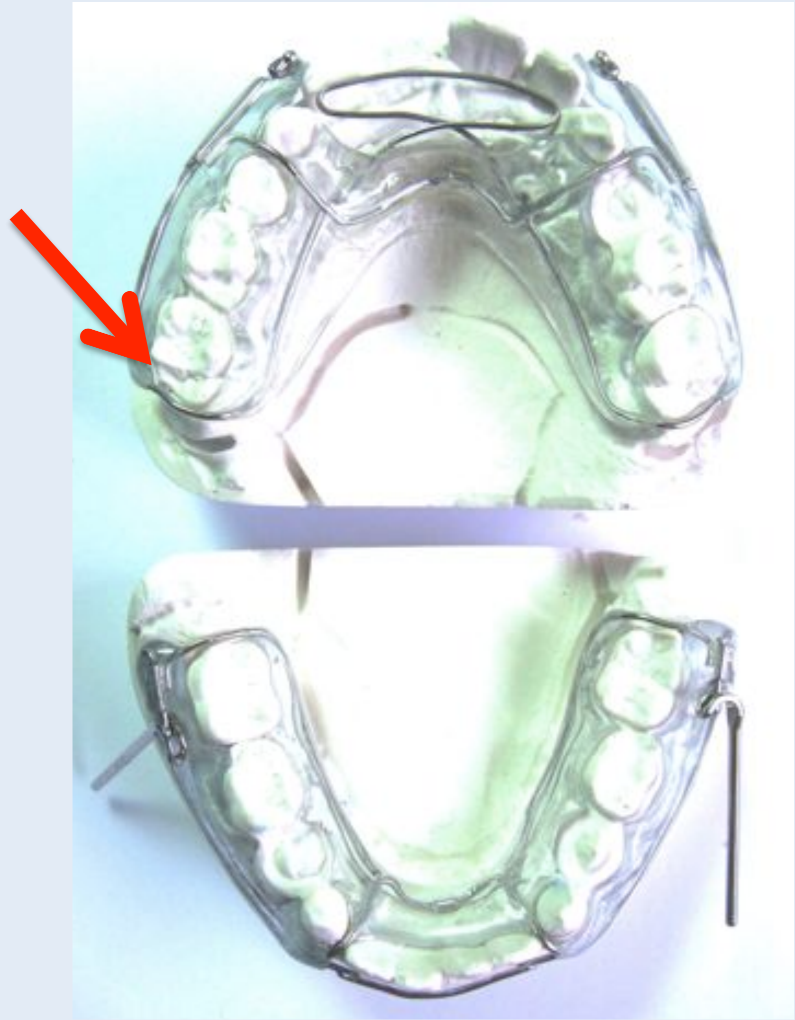
Leave 2 mm for orthodontist so that he could cut and reduce mandibular advancement if needed.

The upper posterior frame must anticipate the evolution of second molar and stay at occlusal surface level instead of touching gingiva.

Lower splint must be thicker than that when a screw is included, to avoid breackage.

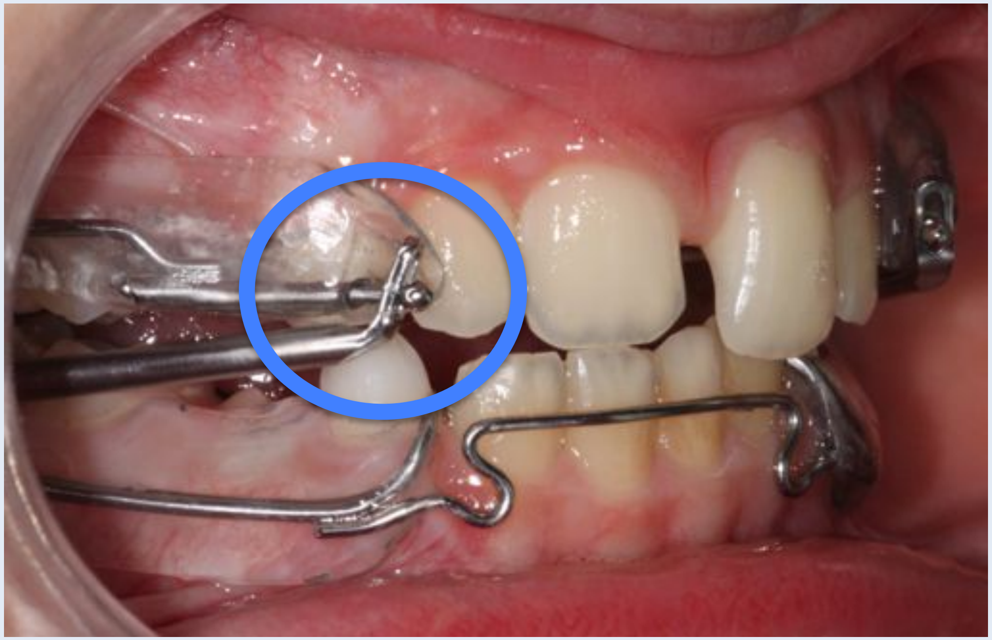
PUL Class III





Upper structure must pass mesially to 1sr upper molar to diminish resistance for a forward upper movement, and to not modify occlusion plane.

PUL Class III



Good

Not good

Bend the upper tailpiece, to avoid hurting patient's lips

Options for retention

The PUL is a removable functional appliance :

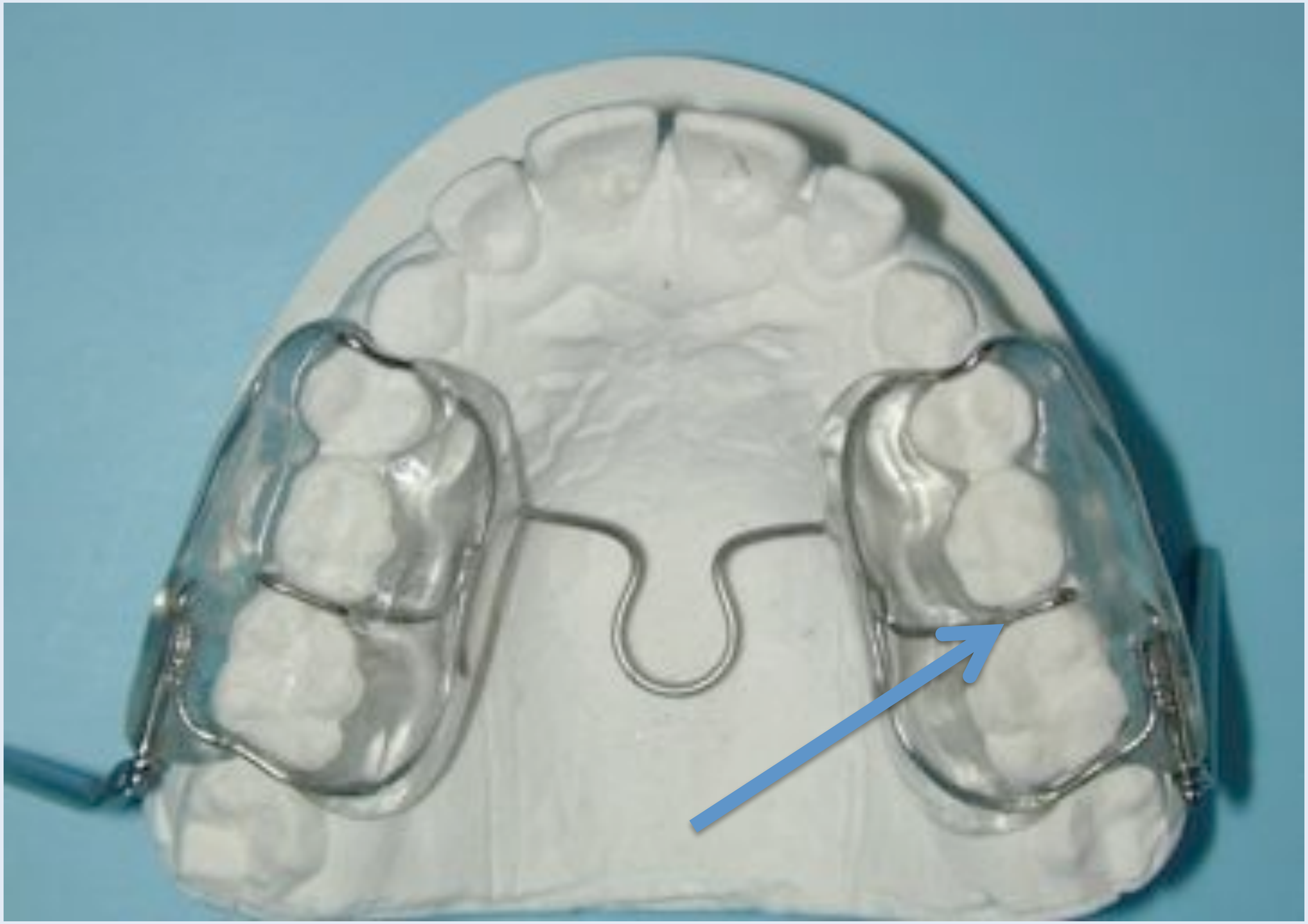
“It is normal that it will be loosy in mouth, tongue and muscles have to maintain it = funtional education and harmonization”.

Inform the patient. Give him the document of Orthoclass.

It is the key of compliance and success.

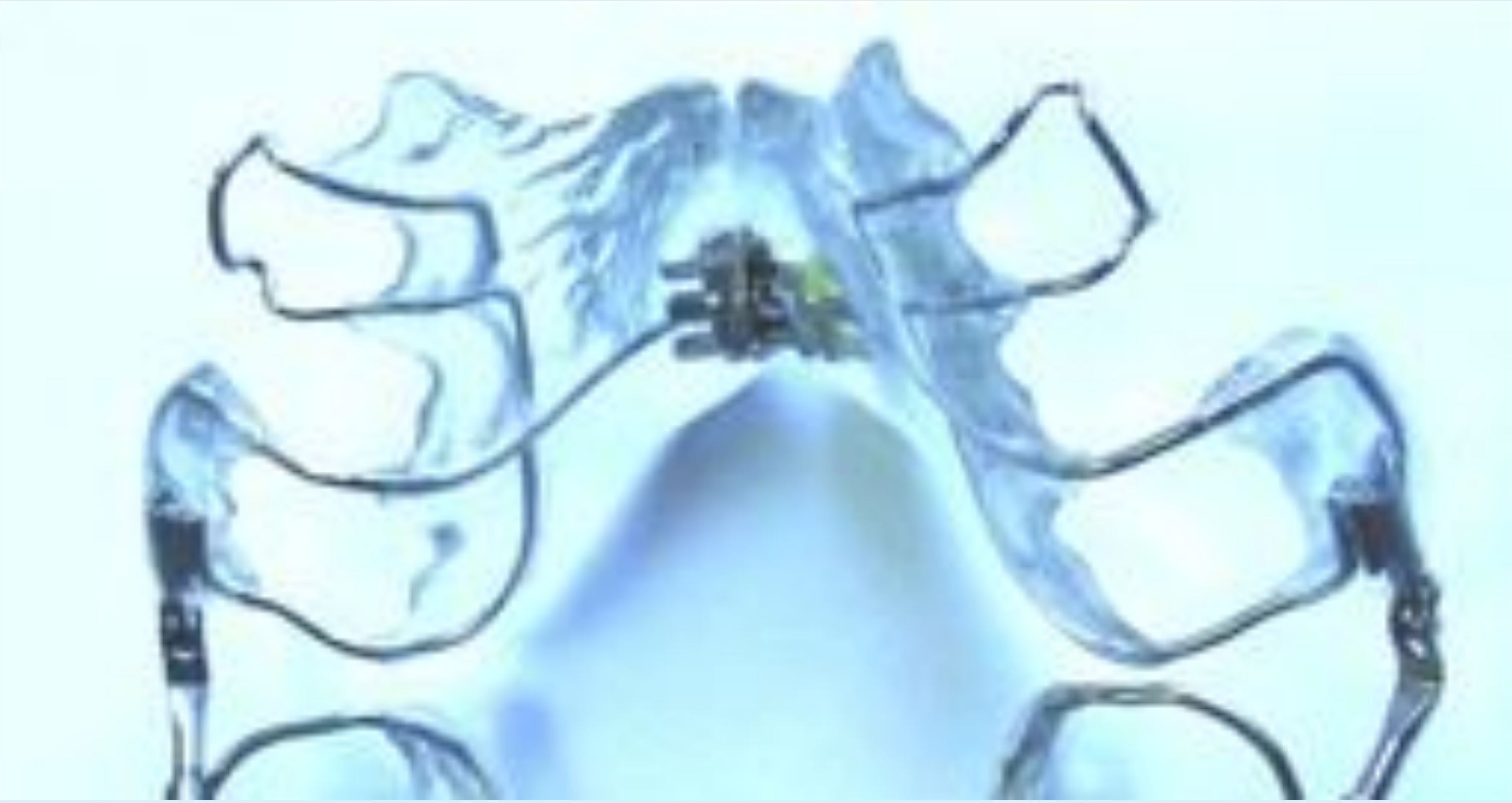
A well-informed patient is an ally who will help us to succeed in his treatment.

Dr E.Callabe

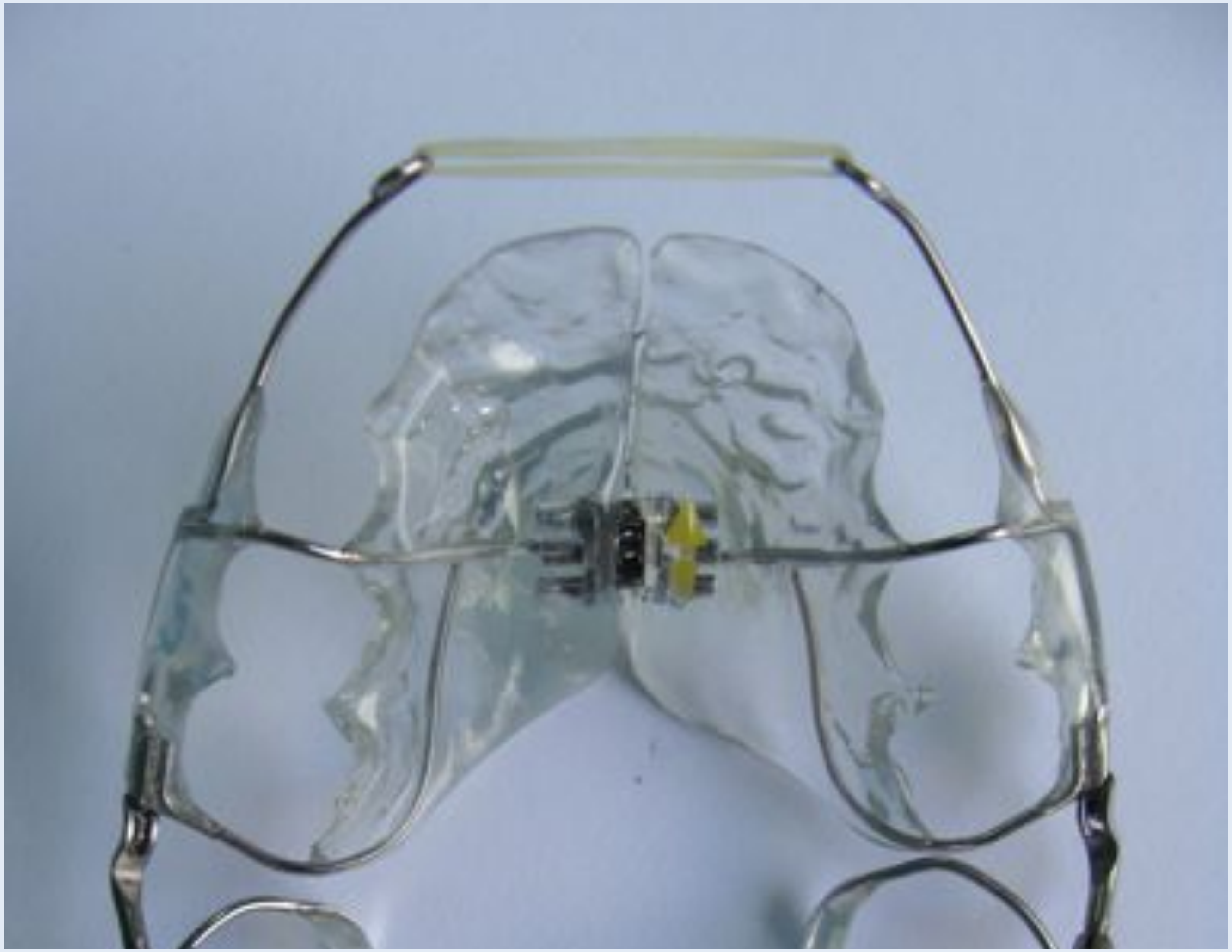


Option for retention: Simple hooks for more retention

Option : Adams hools on V



Option : Adams on IV (very young patient)



Option: Anterior hooks for elastic

Option: bonding composite for retention