

Prosthetic IV.
addition

Removable dentures I. and II.

Removable dentures

- Removable partial dentures
- Complete denture

Removable dentures – classes

- **Class I.**
- Dental arch with gaps (interruptions)
- Teeth supported (borne) dentures
- **Class II.**
- Reduced (shortened) dental arch
- Teeth and tissue supported (borne)
dentures

Removable dentures – classes

Class III.

Single teeth

Loss of the most important abutment teeth (big gaps – more than 4 teeth)

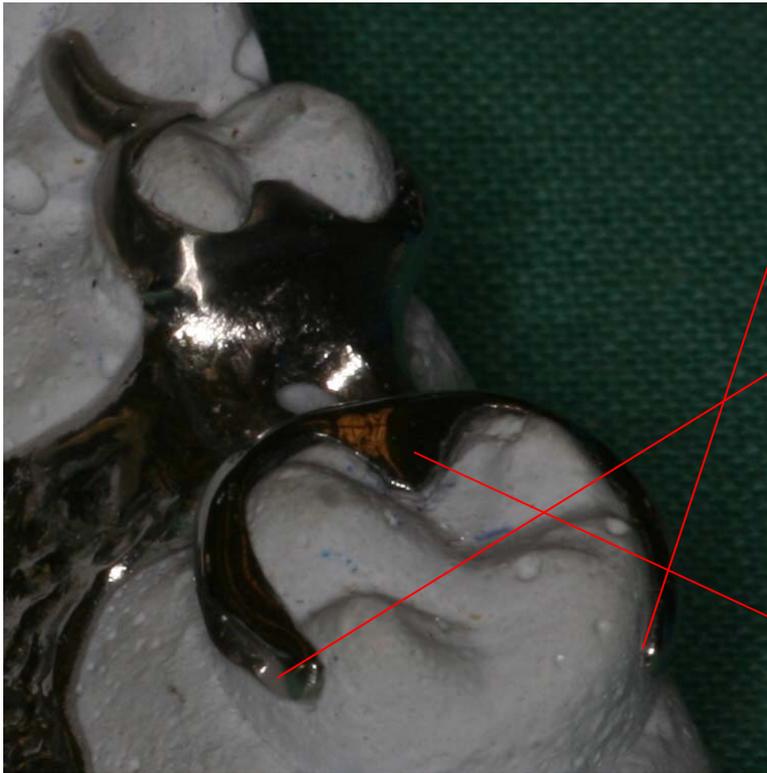
Mostly tissue (borne) dentures, sometimes teeth supported additionally

Class IV.

Complete denture

Tissue supported (borne)

Clasp – three armed cast

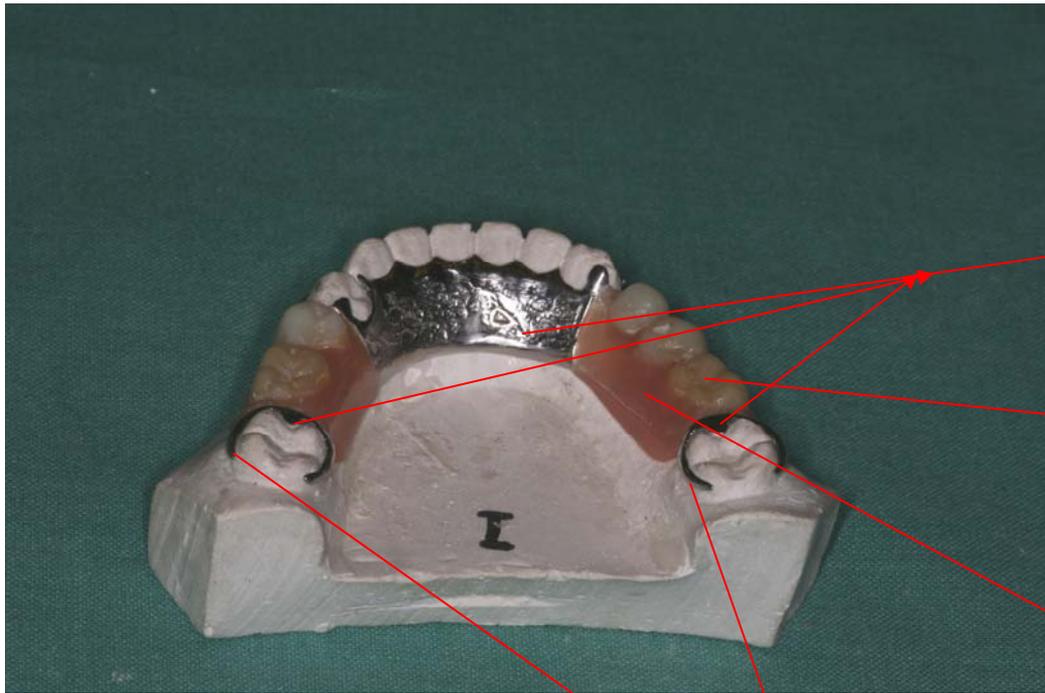


One part for retention (going under the maximal convexity)

One part for stabilization against horizontal forces (upon the maximal convexity)

On arm for transmission of occlusal forces (the rest)

Class I and II dentures with the metal framework



**Class I. denture
Components:**

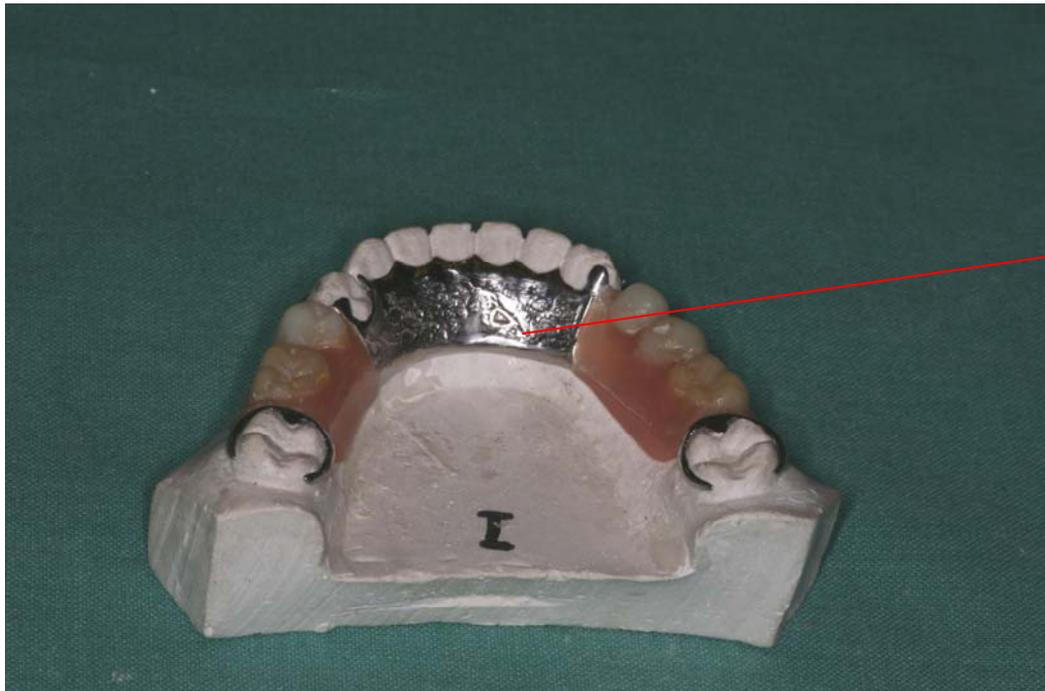
Metal framework

Arteficial teeth

Base

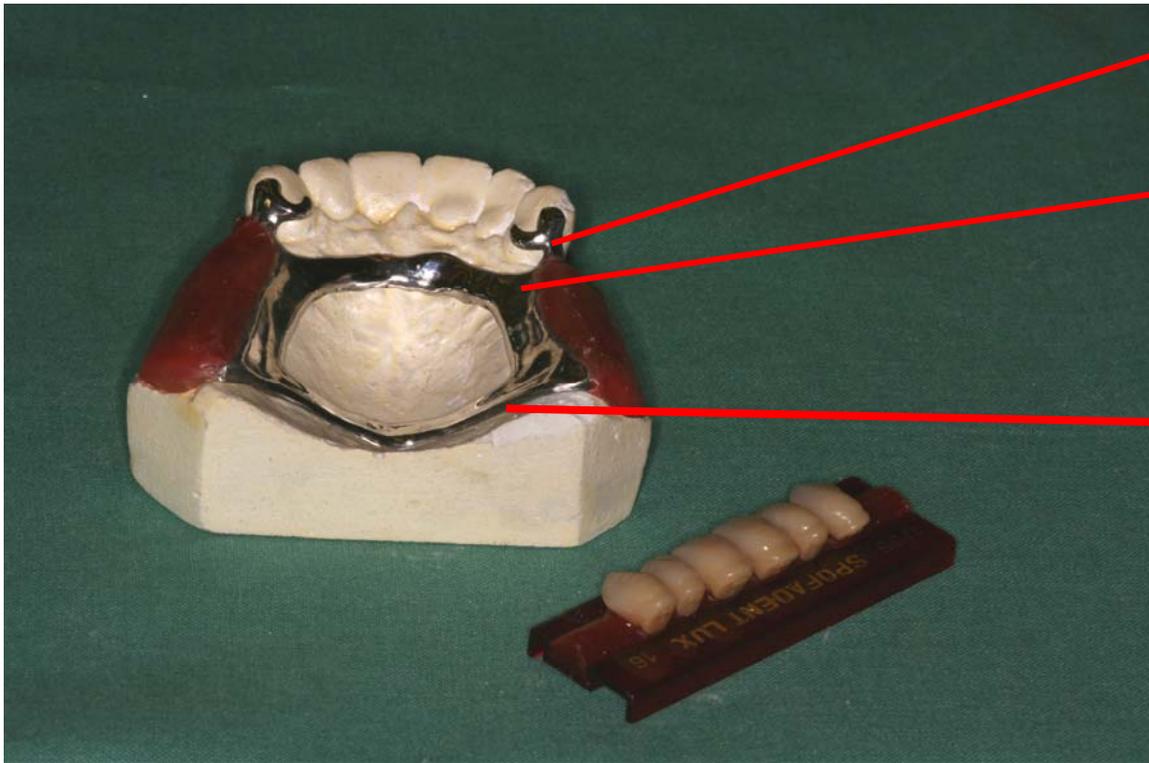
Clasps

Class I and II dentures with the metal framework



Lingual plate

Class I and II dentures with the metal framework



Minor connector

Anterior palatal bar

Posterior palatal bar

Sequences of operations

Taking impressions (alginate.



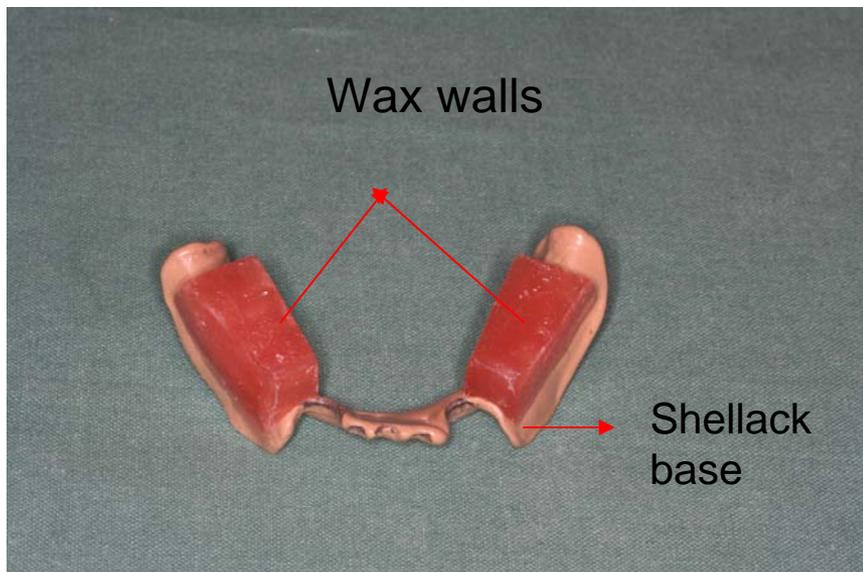
Both jaws always !

Sequences of operations

Pouring – gypsum models.

Fabrication of the individual impression tray if necessary.

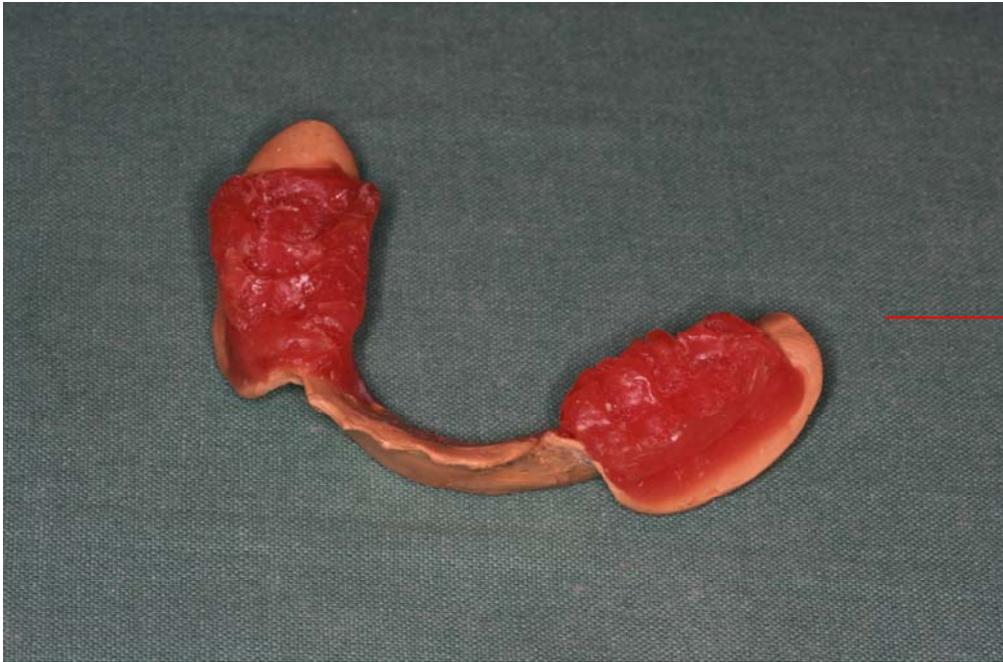
If not, fabrication of the bite template:



The bite template is necessary for the registration of the intermaxillary relationship. It consists of the shellack base and the wax walls.

Sequences of operation

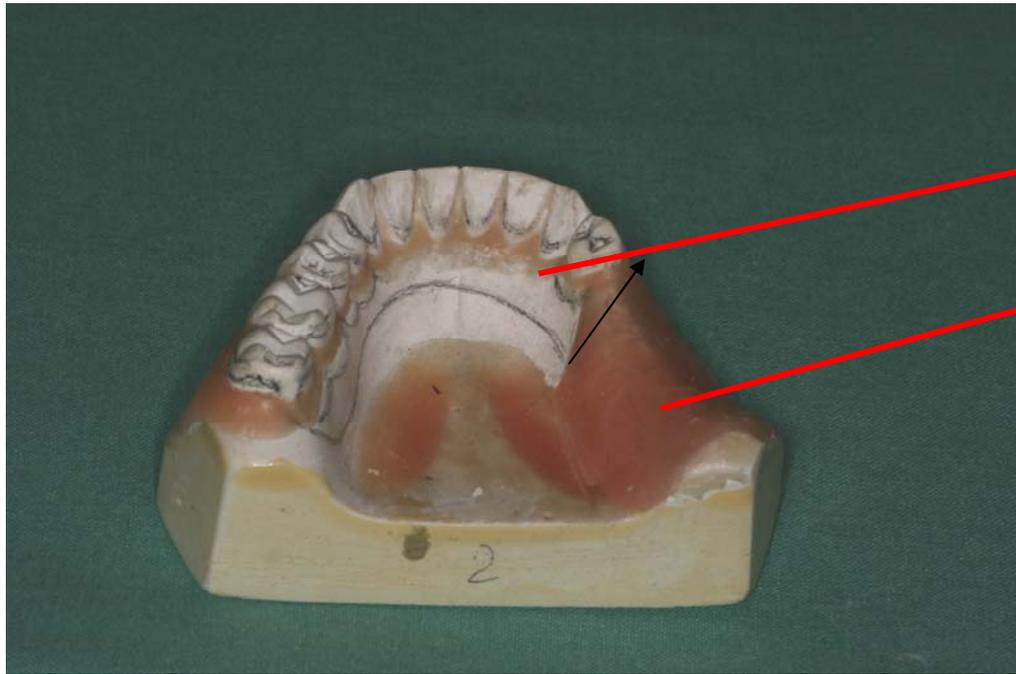
- Registration of the intermaxillary relationship.



→ The registrate

Sequences of operation

- Preparation of the model for backup.



All undercuts are blocked out

Also the space
under the future framework

Using heated wax

Sequences of operations

- Backup using the reversible impression agar based material in a special flask
- Pouring of this impression with -the investing material – casting model



Sequences of operations

- Fabrication of the wax pattern of the metal framework.



Influx system

Sequences of operations

- Investment with the same investing material –a special flask.



The wax is burnt out and the form is heated in a special oven.

After that the casting process is performed using a special casting machine.

Sequences of operation

- After casting and cooling the framework is taken out, the inflow system must be cut off.



Sequences of operation

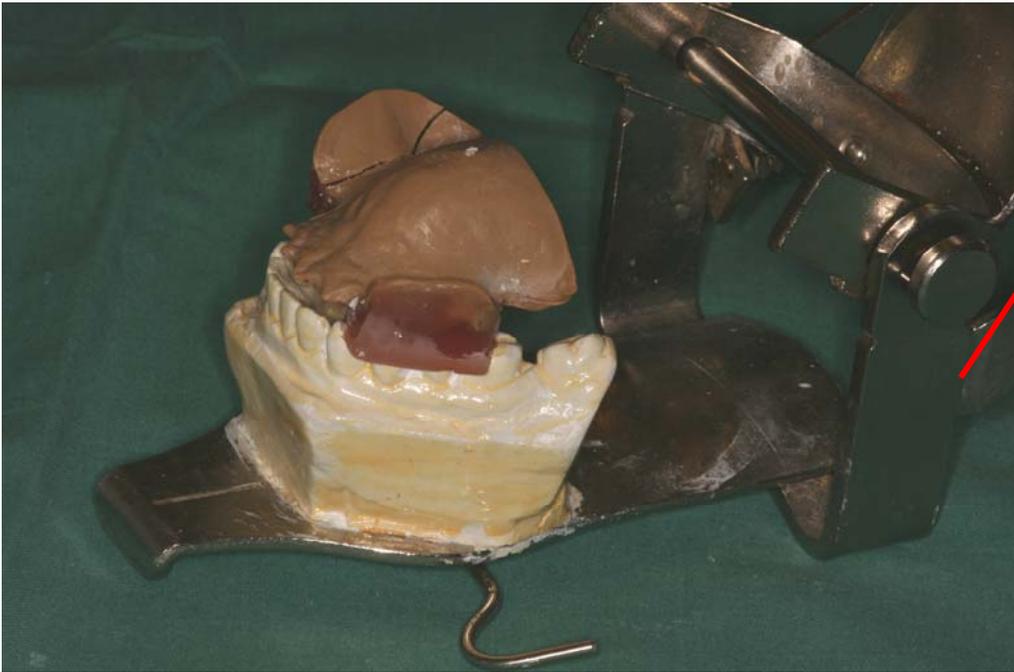
- The cast is grinded, polished and adapted on the former gypsum model



The final framework is tried out

Sequences of operation

- The artificial teeth will be applied acc. to intermaxillary registrate in articulator.





Artificial teeth
- acrylic

Sequences of operation

- After trying out of the denture with wax base and teeth the denture is completed



The framework with the wax pattern of the base and teeth has been put into a flask, the wax has removed and replaced with a resin dough. The resin base is polymerized using heating.

Sequences of operation

- The denture is finished, polished and tried in.



Feedback

- For which classes of removable dentures is necessary to fabricate the metal framework?
- On which model is the wax pattern of the framework made?
- What is the method of „lost wax“ ?

Feedback

- Which parts does the partial removable denture consist of?
- Describe the sequences of operations of these dentures. Explain the main difference between class I. and II. removable dentures.
- What is the purpose of the bite template? Which part does it consist of?
- Explain the term „investment“ .