

Pipette device for delicate transfer of tissue in immunohistochemistry staining procedures (P-1295)

Key facts

- Disposable pipette device for transfer of tissue such as in immunohistochemistry (IHC)
- Applicable for all commercial available pipette suction devices
- In particular useful for paraffin embedded slices smaller than 10 micrometer

Abstract

Staining of tissue is a standard method in biological laboratories, but also in clinical environment for diagnostics such as immunohistochemistry (IHC). After a certain incubation period the protocol often requires the transfer of the tissue into another staining chamber. This transfer is a critical step since the thickness of the paraffin embedded slices is smaller than 10 micrometers and, therefore, not very resistant against mechanical force so it bears the danger to destroy the biological material. In addition, the slice can be easily sucked into the laboratory pipette during transferring procedure.

The Technology

As a technical solution a disposable pipette is engineered to have a hole at a specified spot for pressure regulation. This ensures that no under pressure occurs, which might be able to damage the tissue mechanically and/or inhibits the tissue from being sucked into the pipette. For more details regarding the technical solution see figures 1-4 on next page.

Development Stage

The prototype of the device has been optimized for different experiments and has already been demonstrated to be successful in staining procedures of IHC.

Applications and Commercial Opportunity

DKFZ is looking for a commercial partner to produce and distribute the device for biological and medicinal laboratories.

Inventors

The investigators are: Yasuhito Watanabe and Hannah Monyer, both DKFZ.

Intellectual Property

A German utility model with the title "Absaugvorrichtung für Flüssigkeiten mit Unterdruckbegrenzung" has been granted January 26 in 2017 in Germany as [DE202016007102](#).

Further Information

No other public information is currently available, but further information (speaking with the inventor) is available under a signed Confidential Disclosure Agreement (CDA).

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Figure 1

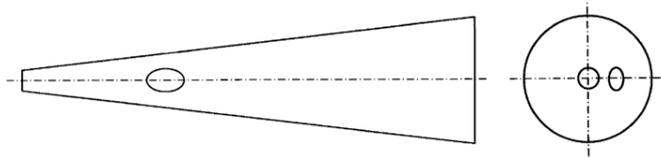


Figure 2

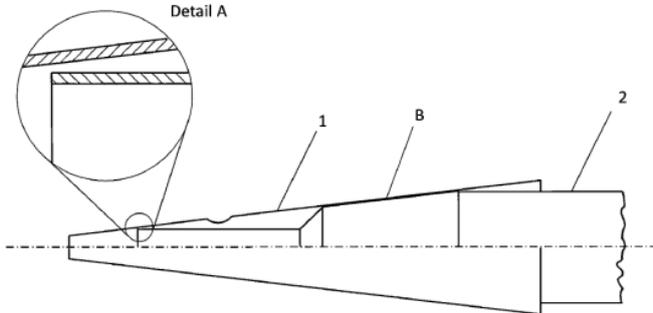


Figure 3

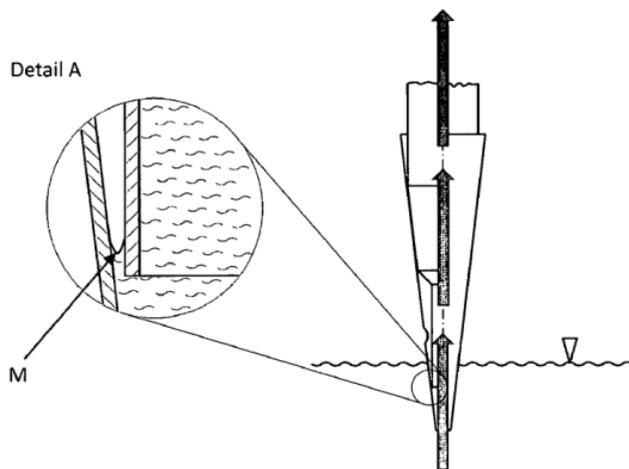


Figure 4

