

Title (en)
DEVICE FOR MOUNTING PIPETTE TIPS, PIPETTE TIP, AND PIPETTING DEVICE

Title (de)
VORRICHTUNG ZUR HALTERUNG VON PIPETTENSPITZEN, PIPETTENSPIITZE SOWIE PIPETTIERVORRICHTUNG

Title (fr)
DISPOSITIF DE MAINTIEN DE POINTES DE PIPETTE, POINTE DE PIPETTE AINSI QUE DISPOSITIF DE PIPETTAGE

Publication
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Application
EP 07725637 A 20070529

Priority

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- EP 06010976 A 20060529
- EP 07725637 A 20070529

Abstract (en)
[origin: EP1862219A1] The device for holding of pipette tips (10), comprises a coupling element (4) having a longitudinal axis (6) running in the axial direction, a free end (8), a sealing element (21) made of an elastic material, two axially-separated guidance elements (25, 26), a fastening element (27), and a chamfer insert (68) at the free end for pre-calibration of the pipette tip. From the free end, a pipette tip is pushed on to the coupling element in the axial direction. The elastic material has an axial, radially-extending sealing section, which freely lies in the axial direction towards the free end. The device for holding of pipette tips (10), comprises a coupling element (4) having a longitudinal axis (6) running in the axial direction, a free end (8), a sealing element (21) made of an elastic material, two axially-separated guidance elements (25, 26), a fastening element (27), and a chamfer insert (68) at the free end for pre-calibration of the pipette tip. From the free end, a pipette tip is pushed on to the coupling element in the axial direction. The elastic material has an axial, radially-extending sealing section, which freely lies in the axial direction towards the free end. A sealing section of the pipette tip is partly pressed along the axial direction against the sealing section. The guidance- and fastening element are arranged at the outer side of the coupling element. The guidance element for the lateral alignment of the pipette tip forms a radially continuous guidance ring with constant radial extension. The guidance rings have a different radial extension and are formed independent of one another. The guidance elements have an intermediate distance that is as large as the radial extension of the guidance elements, or the larger of the two guidance elements. The fastening element is arranged with the fastening means of the pipette tip for pressing the sealing section. The coupling element is arranged at a first section, which is close to the free end, and a second section, which is arranged in an axially-displaced manner with respect to the first section. The first section has a smaller radial extension than the second section. The guidance element is arranged at the first and second sections respectively, between which the sealing element is arranged. The fastening element is arranged at the second section. The sealing element is composed of a fluoroelastomer. The fastening element is a peripherally-continuous spring element, which is arranged in a peripherally-continuous recess, has radial elevations arranged in a partially or continuously circular manner and is rigid or flexible. The fastening element is arranged behind all the guidance elements when seen from the direction of attachment of the pipette tip. The sealing element is malleable along its material cross-section. Independent claims are included for: (1) pipette tip to be held by a fastening device; and (2) pipette.

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Citation (examination)

- US 6168761 B1 20010102 - KELLY CHRISTOPHER [US], et al
- DE 19917375 A1 20001102 - HAMILTON BONADUZ AG BONADUZ [CH]

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