

Title (en)
SEALED SALT BRIDGE

Title (de)
ABGESCHLOSSENE SALZBRÜCKE

Title (fr)
COMPARTIMENT SCELLE REMPLI D'UN ELECTROLYTE

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Abstract (en)
[origin: WO0111349A1] The present invention is a sealed salt bridge (10) consisting of two connected, electrolyte-filled sections; an electrolyte conduit (14) that is relatively long and narrow, the distal end of which contacts a test solution (50) or another salt bridge and serves as a liquid junction (16); and the proximal end of which is connected to an electrolyte chamber (12) that is significantly wider than the electrolyte conduit, and contacts an electrode or second liquid junction (18). The conduit, by reason of its length and relatively small cross-section, serves to limit the rate that foreign ions from a test solution or another electrolyte compartment can diffuse from the liquid junction and contaminate the electrolyte chamber. The electrolyte chamber, by reason of its larger cross-section and concomitantly larger volume per unit length, serves to limit, by means of dilution, the concentration of foreign ions which eventually diffuse into the chamber.

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