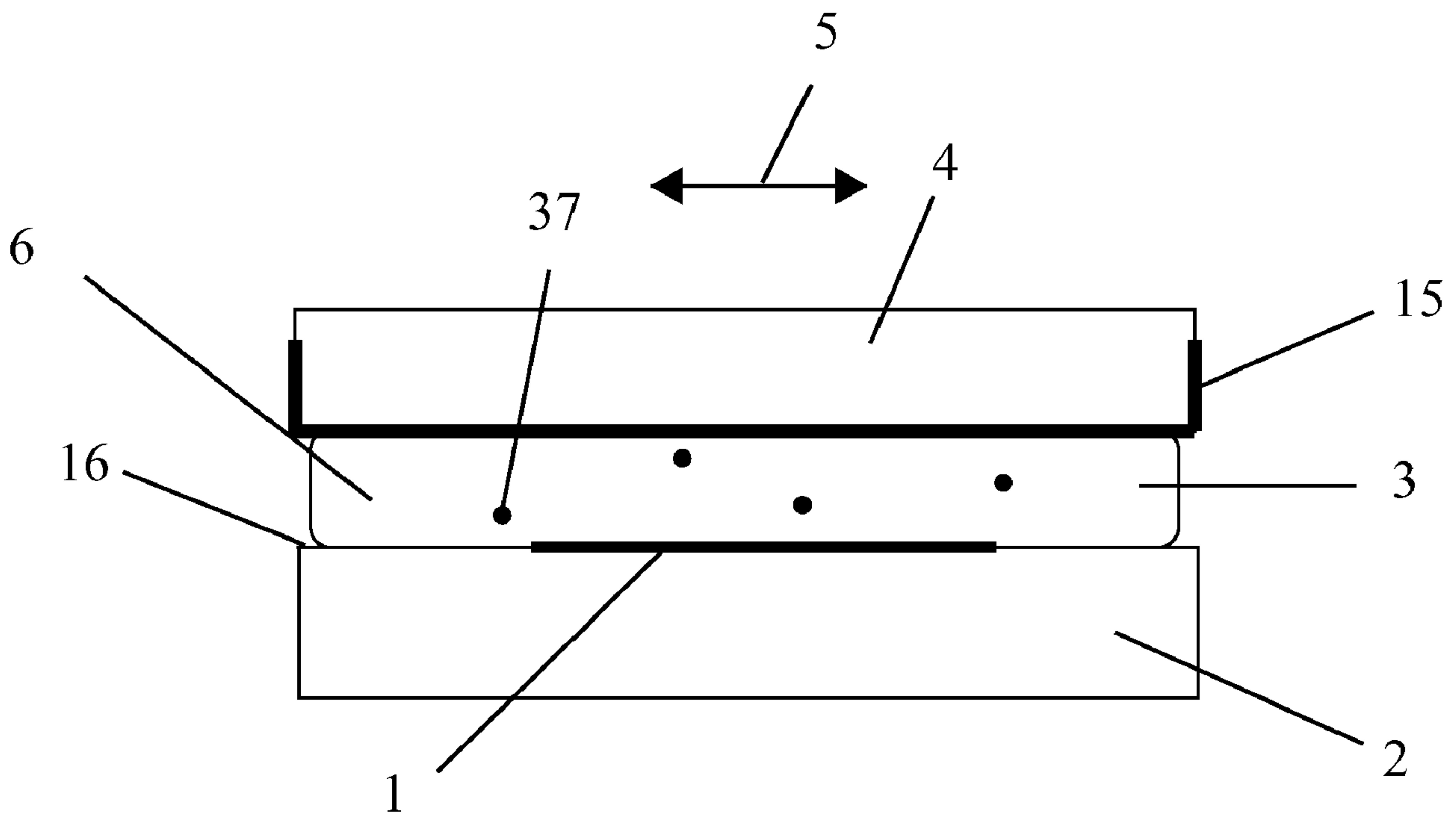




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(54) **Titre : PROCÉDES ET SYSTÈMES POUR LE TRAITEMENT EFFICACE D'ÉCHANTILLONS BIOLOGIQUES**  
 (54) **Title: METHODS AND SYSTEMS FOR EFFICIENT PROCESSING OF BIOLOGICAL SAMPLES**



(57) **Abrégé/Abstract:**

Systems and methods of sample (1) and staining processing including compression and dynamic movement of liquids (3) in a fluidically moving substantially contained liquid bridge (6) perhaps between a hydrophobic wand (4) and a hydrophilic sample support element (2). Embodiments may include low volume reagent and perhaps even low volume buffer wash in sample processing. In addition, antibodies can be conjugated with nanoparticles (64) and can be used in sample processing. Exposing a sample with or without movement to AC, DC, or even a permanent magnet field may improve staining. Staining with nanoparticle reagents could be quantified using a microscope with a magnetometer below the slide viewing area. The detection of nanoparticles attached to the chemistry may facilitate the quantification of cancerous cells stained in the tissue.