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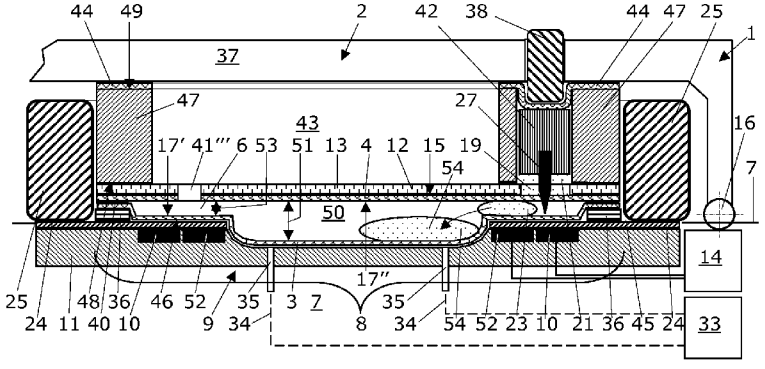
Fig. 5



(57) Abstract: A digital microfluidics system (1) is configured for manipulating samples in liquid droplets within a gap (6) of at least one disposable cartridge (2). For providing additional space for collecting and/or storing waste fluids in this digital microfluidics system (1), it is provided at least one waste hollow (50) which is fluidly connected with a gap (6) of a disposable cartridge (2) that comprises a bottom layer (3) with a first hydrophobic surface (17') and a top layer (4) with a second hydrophobic surface (17"). The waste hollow (50) is located next to at least one individual waste electrode (52) that is positioned next to at least one individual electrode (10) of an electrode array 9 of the microfluidics system (1). Each individual waste electrode (52) is operatively connected to a central control unit (14) of the microfluidics system (1) and covers in each case a waste electrode area. The waste hollow (50) covers a waste area that is equal to a multitude of said waste electrode area and said waste hollow (50) has a height (51) that is equal to a multitude of a gap height (53) of the gap (6) of a disposable cartridge (2).

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