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(54) **The determination of an electrical characteristic of a particles containing liquid**

(57) A system for the determination of an electrical characteristic, in particular the streaming potential or zeta-potential, of a particles containing liquid in a measurement cycle. The system includes a measurement apparatus with a measuring conduit and first and second electrodes, so that each electrode contacts said liquid in said measuring conduit during the measurement cycle. The system includes a particles retaining filter effective at a location in said measuring conduit during the measurement cycle, which particles retaining filter allows for the build up and retention of a plug of particles.

The system further comprises an intermittent filtering web feed mechanism, and a roll of disposable filtering web or a zigzag folded continuous disposable filtering web. The measurement apparatus has a path for the disposable filtering web that extends across the measuring conduit so that a portion of the web in said measuring conduit forms the particles retaining filter. The intermittent filtering web feed mechanism is adapted to advance said filtering web intermittently.

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