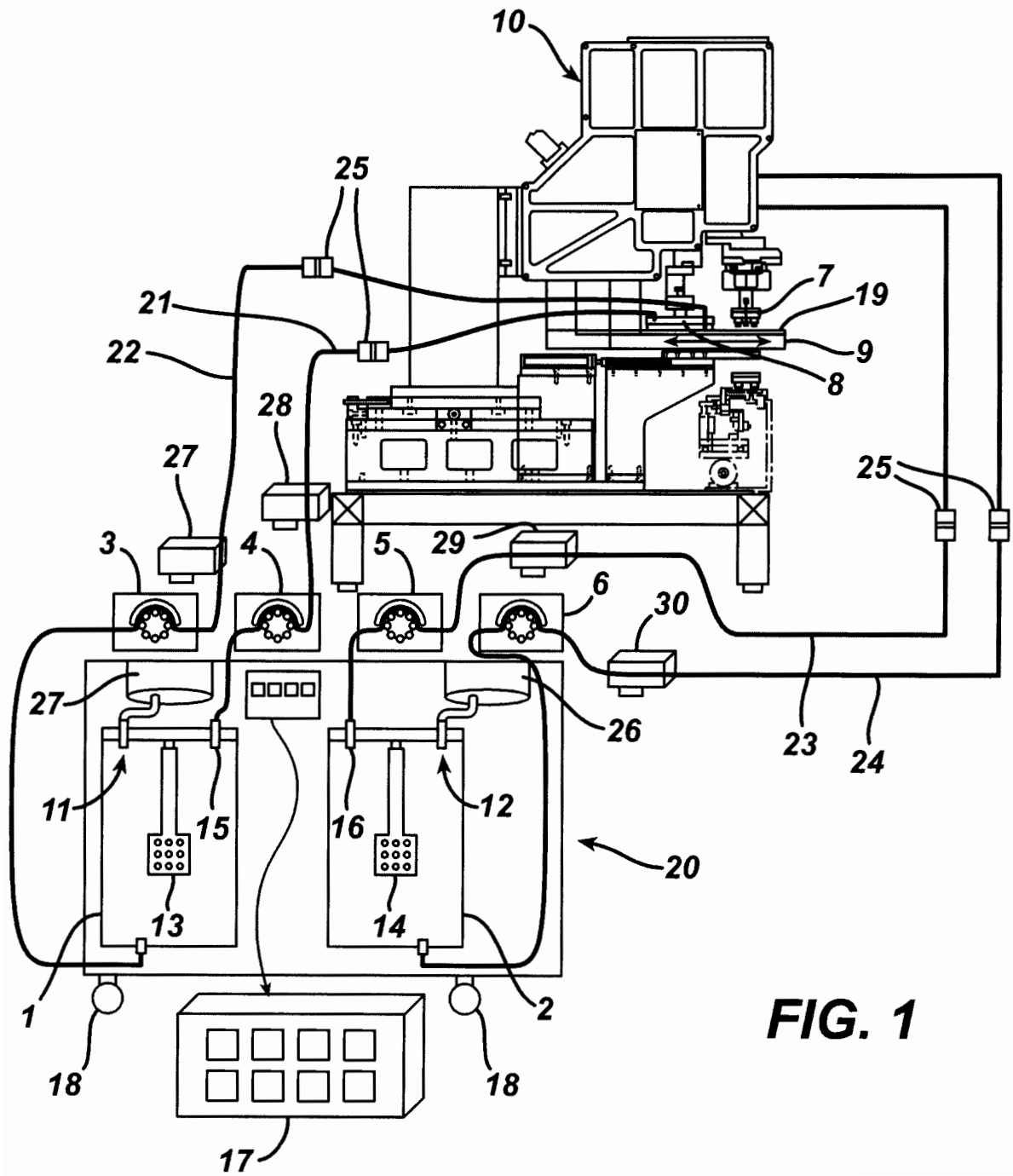

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FIG. 1

FIG. 2A

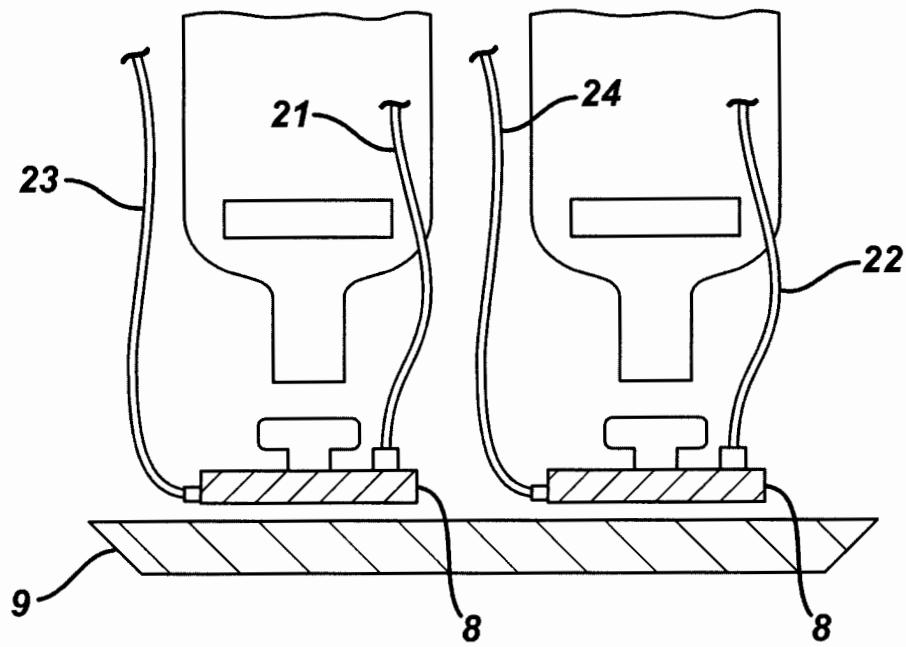


FIG. 2B

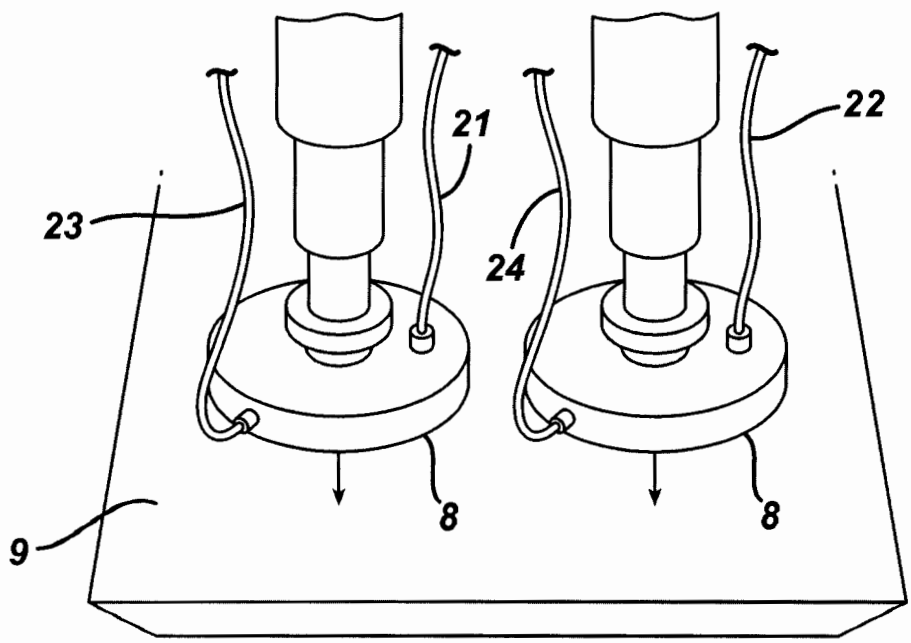


FIG. 3

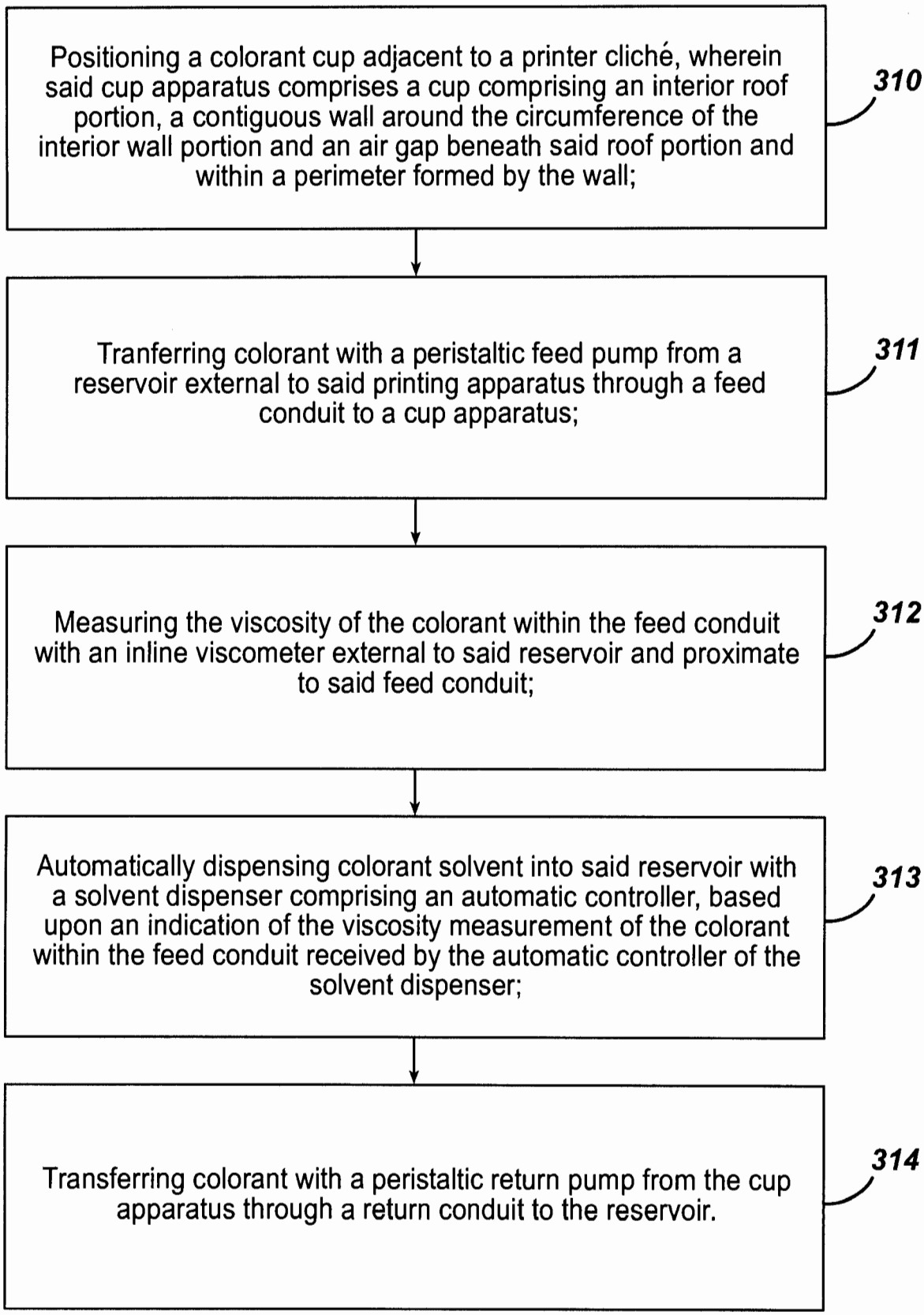
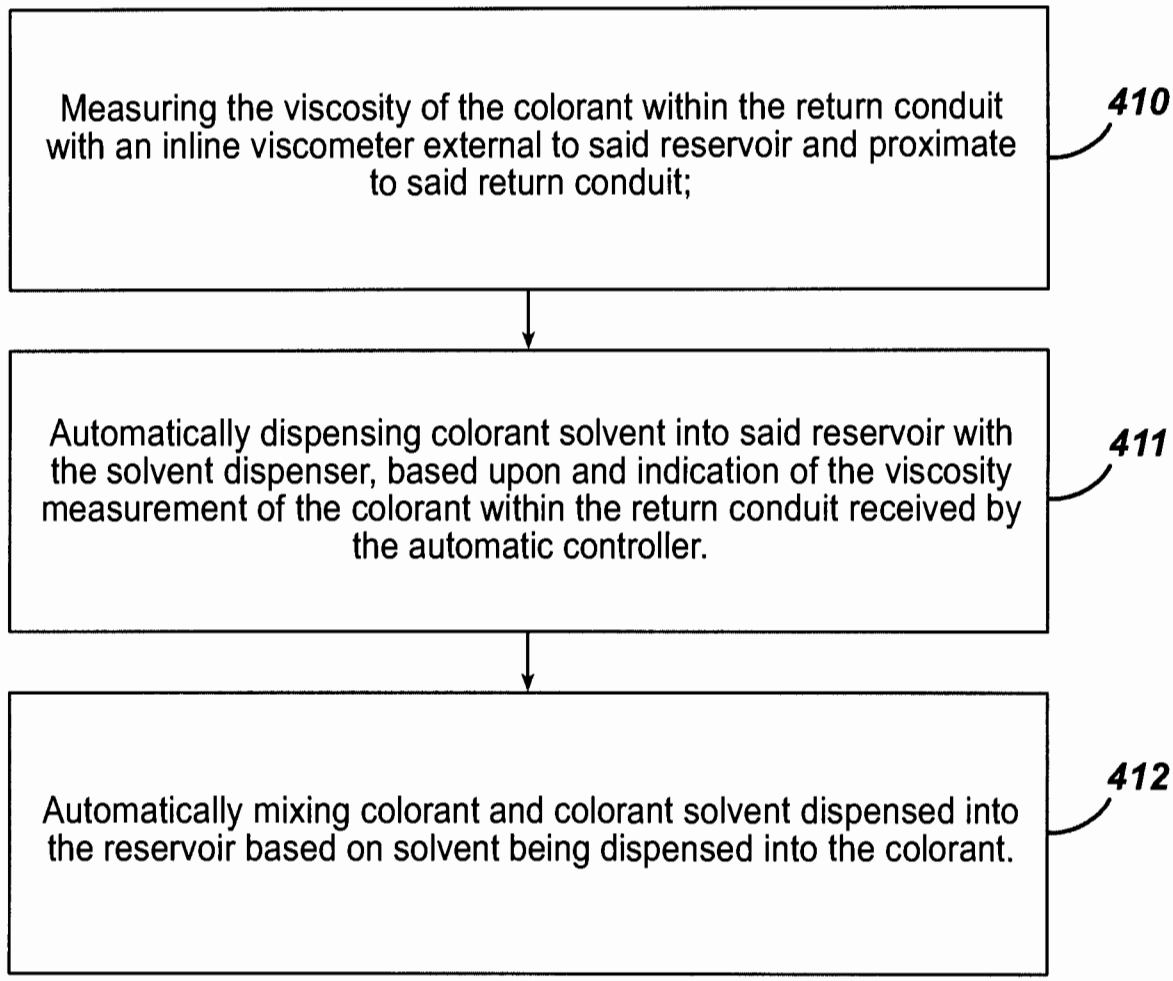

Positioning a colorant cup adjacent to a printer cliché, wherein said cup apparatus comprises a cup comprising an interior roof portion, a contiguous wall around the circumference of the interior wall portion and an air gap beneath said roof portion and within a perimeter formed by the wall;
310
Tranferring colorant with a peristaltic feed pump from a reservoir external to said printing apparatus through a feed conduit to a cup apparatus;
311
Measuring the viscosity of the colorant within the feed conduit with an inline viscometer external to said reservoir and proximate to said feed conduit;
312
Automatically dispensing colorant solvent into said reservoir with a solvent dispenser comprising an automatic controller, based upon an indication of the viscosity measurement of the colorant within the feed conduit received by the automatic controller of the solvent dispenser;
313
Transferring colorant with a peristaltic return pump from the cup apparatus through a return conduit to the reservoir.
314

FIG. 4


Measuring the viscosity of the colorant within the return conduit with an inline viscometer external to said reservoir and proximate to said return conduit;
410
Automatically dispensing colorant solvent into said reservoir with the solvent dispenser, based upon and indication of the viscosity measurement of the colorant within the return conduit received by the automatic controller.
411
Automatically mixing colorant and colorant solvent dispensed into the reservoir based on solvent being dispensed into the colorant.
412