

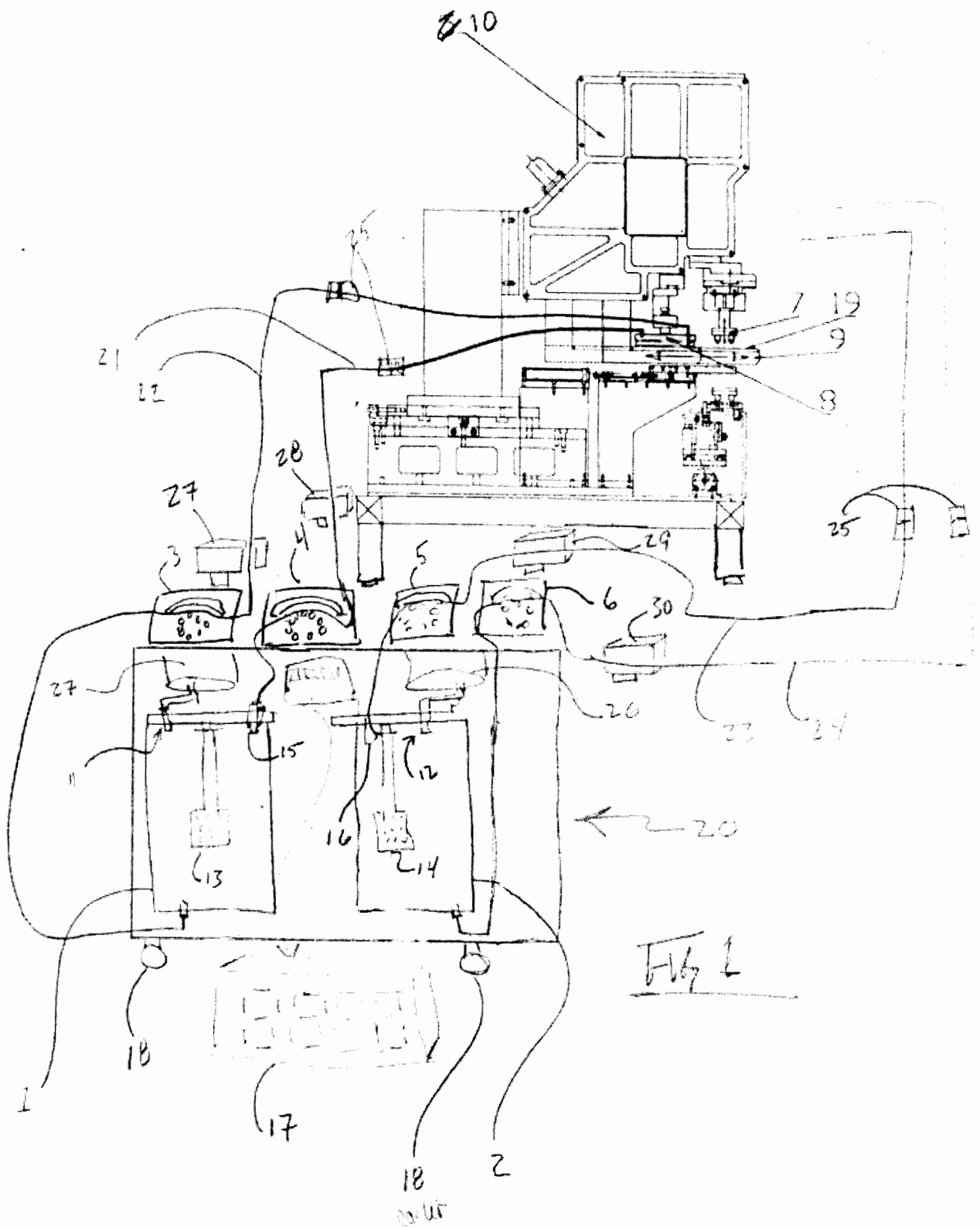
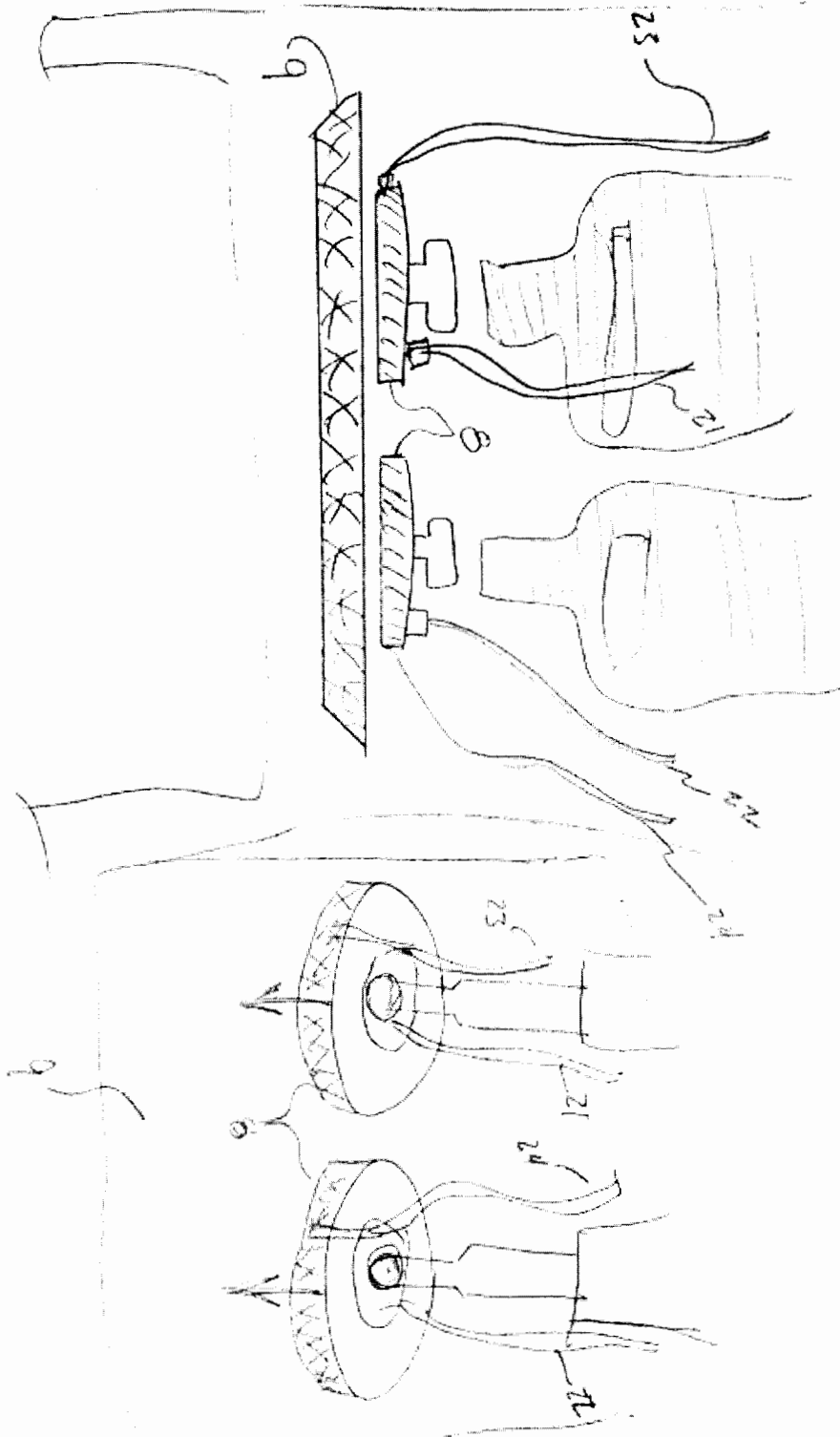


Fig. 2



310

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;

311

TRANSFERRING COLORANT WITH A PERISTALTIC FEED PUMP FROM A RESERVOIR EXTERNAL TO SAID PRINTING APPARATUS THROUGH A FEED CONDUIT TO A CUP APPARATUS;

312

MEASURING THE VISCOSITY OF THE COLORANT WITHIN THE FEED CONDUIT WITH AN INLINE VISCOMETER EXTERNAL TO SAID RESERVOIR AND PROXIMATE TO SAID FEED CONDUIT;

313

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;

314

TRANSFERRING COLORANT WITH A PERISTALTIC RETURN PUMP FROM THE CUP APPARATUS THROUGH A RETURN CONDUIT TO THE RESERVOIR.

FIG. 3

410

MEASURING THE VISCOSITY OF THE COLORANT WITHIN THE RETURN CONDUIT WITH AN INLINE VISCOMETER EXTERNAL TO SAID RESERVOIR AND PROXIMATE TO SAID RETURN CONDUIT;

411

AUTOMATICALLY DISPENSING COLORANT SOLVENT INTO SAID RESERVOIR WITH THE SOLVENT DISPENSER, BASED UPON AN INDICATION OF THE VISCOSITY MEASUREMENT OF THE COLORANT WITHIN THE RETURN CONDUIT RECEIVED BY THE AUTOMATIC CONTROLLER.

412

AUTOMATICALLY MIXING COLORANT AND COLORANT SOLVENT DISPENSED INTO THE RESERVOIR BASED ON SOLVENT BEING DISPENSED INTO THE COLORANT.

FIG. 4