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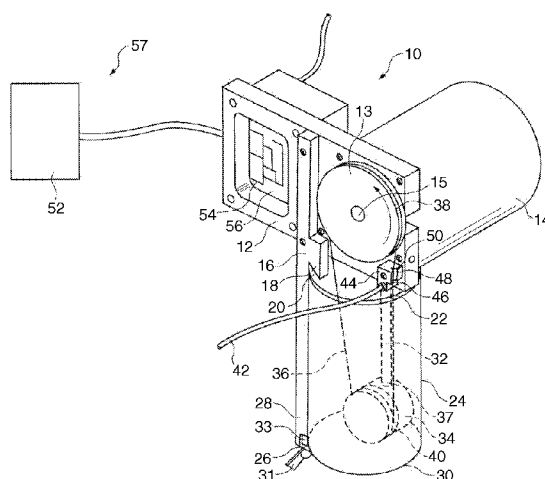
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: PRINTER HAVING A PRINT WIRE WITH ALTERNATING HYDROPHILIC AND HYDROPHOBIC AREAS TO FORM DROPLETS FOR PRINTING INKS



(57) Abstract: A printer for digital printing in which ink is deposited in metered amounts on a substrate. The printer includes a wheel rotatable by a shaft of a motor, an idler disposed in a paint reservoir, and a segment of wire disposed around the wheel and the idler. A computer controls movement of the wire by controlling the rotation of the wheel. As the motor rotates the wheel, ink contained within the paint reservoir coats the wire and is drawn by the wire in front of an air stream, which pulls the ink from the wire and carries it toward the substrate. The wire has alternatively hydrophilic and hydrophobic areas, causing the ink to form droplets on the wire for printing them as discrete pixels onto the substrate.

WO 2008/094715 A1



— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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