



AN INK JET PRINTING APPARATUS AND
A PRINTING HEAD FOR SUCH AN INK JET PRINTING APPARATUS

ABSTRACT

An ink jet printing apparatus has a casing (1)
5 which is divided into upper and lower regions by a
dividing wall (60). In the lower region, between the
dividing wall and the base of the casing is an ink
circulation unit (19 to 25). A pump (25) of the of
the ink circulation unit (19 to 25) passes ink from a
10 main ink container (19) to a tube (39) and hence to a
printing head (38) of the apparatus. The ink
circulation unit (19 to 25) may have a filter (22) for
filtering the ink before it passes to the printing
head (38), and also have a secondary ink container
15 (20) and a solvent container (21) for containing ink
and solvent which are passed to the main container
(19) as they are used up during printing. Access to
the containers (19 to 25) and the filter (22), which
need periodic replacement, is via an access cover (8)
20 in the casing. The access cover (8) is at the front
of the casing (1) so that it can be used by an
operator when the printing apparatus is in its normal
position. Above the dividing wall (60) is a circuit
board unit (40,42,43) which controls the ink
25 circulation unit (19 to 25), and also the printing
head (38). The circuit board unit (40,42,43) is also
close to a display panel (3) of the printing
apparatus, and is separated from a power unit
(48,54,57) by a vertical wall (41). Thus, since the

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circuit board unit (40,42,43) and the power unit (48,
54,57) are above the ink circulation unit (19 to 25),
spillage of ink will not affect them.

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