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ABSTRACT

INK TANK

The present invention relates to an ink tank for supplying a proper amount of ink needed to a dot matrix printer head, wherein the ink tank is detachably mounted on the printer head body, and comprises a top wall (50), a bottom wall (40a) and walls (40b, 40c) extending therebetween. An ink supply port (41) is arranged in the bottom wall (40a) to receive ink from at least one porous member (60"; 61, 62), which is impregnated with ink under subatmospheric pressure and has substantially no air layer or pocket enclosed by the ink. The at least one porous member (60"; 61, 62) is arranged in the ink tank such that only a projecting portion, ridges or a partition wall (44, 47, 48, 51) of at least one wall (40a, 40b, 40c, 50) contacts the at least one porous member (60"; 61, 62) so that the remaining portion of the at least one wall (40a, 40b, 40c, 50) is spaced at a distance from the at least one porous member (60"; 61, 62) and that an air hole (42) in one of the ink tank walls communicates air in the space with ambient air. The at least one porous member (60"; 61, 62) has pores which progressively reduce in size, and at least one guide projection (49) is provided on the outside of a wall of the ink tank for guiding the ink tank in a head frame of the printer head body.