

Title (en)

AUTOMATIC DEVICE FOR VENTILATING UNDER PRESSURE THE INK SUPPLY RESERVOIR OF A PRINTER

Publication

EP 0143213 B1 19870819 (DE)

Application

EP 84110463 A 19840903

Priority

DE 3335663 A 19830930

Abstract (en)

[origin: EP0143213A1] 1. A device for the pressurisation of one or more ink supply tanks which travel with a mobile piezo-nozzle printing head of an ink printer, wherein each ink tank (10 ... 13) consists of a rigid container which is divided by a flexible membrane (14) into an ink chamber and an air chamber, characterised by the combination of the following features : a) the device operates automatically and with error control ; b) the air chamber of each ink tank (10 ... 13) can be connected by a flexible hose (15 ... 18), through a respective magnetic valve (19 ... 22), on the one hand, to the atmosphere and, on the other hand, to a compressed air container (23) ; c) the magnetic winding of each magnetic valve (19 ... 22) is connected by a driver circuit, and, if necessary, a preliminary amplifier, to the output of an ink droplet sensor which, when an ink droplet fails to appear, emits a signal to connect the air chamber of the respective ink tank (10 ... 13) to the compressed air container (23).

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