

Abstract of The Disclosure

An ink containment and dispensing device for an ink-jet printer is provided with a main reservoir in the form of a flexible pouch, which is typically maintained at ambient pressure. The main reservoir is coupled to a variable volume chamber via a one-way valve which allows the flow of ink from the reservoir to the chamber and prevents the flow of ink from the chamber to the reservoir. The chamber is coupled to a fluid outlet, which is normally closed to prevent the outward flow of ink. However, when the ink supply is installed in a printer, the fluid outlet establishes a fluid connection between the chamber and the printer. The chamber is part of a pump provided with the ink supply that can be actuated to supply ink from the reservoir to the printer. The pump has a linearly acting pumping member and a flexible diaphragm that overlies the pumping member, the diaphragm being impervious to the transmission of oxygen and moisture therethrough to prevent degradation of the ink within the chamber. The flexible pouch is contained within a rigid, outer shell having an opposed pair of shorter sides interspersed with an opposed pair of longer sides, and the shorter sides of the shell, in the region of the closed end of a cup-shaped shell, are configured for grasping and for identifying the location of the closed end of the shell.