

Title (en)
Reagent containment and delivery tray.

Title (de)
Behälter und Abgabeplatte für Reagenzien.

Title (fr)
Récipient et plaque de distribution pour réactif.

Publication
EP 0469419 A2 19920205 (EN)

Application
EP 91112185 A 19910720

Priority
US 56195790 A 19900802

Abstract (en)
A high-precision liquid reagent delivery system is provided for convenient and efficient gravity flow delivery of substantially the entire volume of reagent contained within a sealed formed tray. The delivery system comprises a formed tray (10) defining a curved cavity (12) for holding a predetermined amount of liquid, and a substantially planar ledge surface (14) defined around the cavity opening. The surfaces of the cavity are non-porous, uniform and smoothly converging to a point (20) of liquid discharge at an intersection of the cavity and the ledge surface (22). The ledge surface further defines an apex extending longitudinally from the point of liquid discharge and defines a guide path for the delivery of liquid contained within the tray (10). The system also includes a flexible cover (40) removably affixed to the ledge surface of the tray for forming a sealed chamber between the cavity (12) and the affixed cover (40) for containment of liquid. The cover (40) extends beyond the apex (22) of the ledge surface (14) to define a tab portion (42) which can be grasped and pulled from the ledge surface (14) to remove the cover (40). Removal of the flexible cover (40) in such a manner with the tray (10) positioned in a upstanding manner with the point of liquid discharge (20) directed downward provides gravity flow delivery of all liquid contained within the tray (10) with a low coefficient of variation. <IMAGE>

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CPC (source: EP)
B01L 3/505 (2013.01); **B65D 77/2024** (2013.01)

Cited by
EP2239208A1; CN105021807A; CN114569276A; EP0765815A3; EP1094008A3; WO2006032829A1; US8187490B2; US8221645B2; US10751718B2; US11628440B2; TWI398225B

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