

Abstract of the Disclosure

PRINthead COMPRISING MULTIPLE TYPES OF DROP GENERATORS

A printhead (300) includes a first drop generator set (310) and at least a second drop generator set (312, 314, 316). The first drop generator set (310) includes a first type of drop generator (320), whereas the other drop generator sets (312) include a second type of drop generator (317). The first and second types of drop generators (317, 320) are primarily different with regard to the drop weights they are capable of providing. Preferably, the first type of drop generator (320) comprises a multi-nozzle configuration, whereas the second type (317) comprises single nozzle configurations. In one embodiment, a first type of ink is ejected by the first type of drop generators (320) and a second type of ink is ejected by the second type of drop generators (317). To prevent unwanted mixing of the black and color inks, a first orifice or nozzle layer (304) is provided separate and apart from a second orifice layer (306). In this manner, a single printhead may be used for the delivery of both black and color inks.

(Fig. 4)