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(54) Title: LOW MIGRATION UV-LED CURABLE INK FORMULATIONS

(57) Abstract: UV-LED ink composition compositions containing a matrix or binder system, one or more colorants, and one or more photo-initiators. In some embodiments, the matrix or binder system is cured using one or more UV-LED sources. In some embodiments, the matrix or binder system contains one or more materials that are polymerized, crosslinked, and/or cured upon exposure to the UV-LED source. This allows the ink composition to be free of any organic solvents. After polymerization and/or crosslinking, the ink is dry. UV-LED ink compositions can be better suited for curing black inks, improve/increase productivity due to its instant on/instant off capability, and produce little or no heat. Such compositions may have environmental benefits as well as the curing process does not produce ozone and requires less exhaust air surrounding the press.



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