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(54) Title: INKING SYSTEM WITH A BELT AND DIFFERENTIAL ROLLER SPEEDS

(57) Abstract

To minimize the presence of roll-to-roll nips in an inking system for a printing plate cylinder, an ink transfer belt (80) transfers ink from an ink transfer roller (14), which receives ink from a supply (12), to the ink receiving elements on a printing plate cylinder (50). A plurality of guide rolls (84) inside the loop of the ink transfer belt (80) contact the drivable surface of that belt. A drive (414, 104) is connected with one of the guide rollers (84) for driving it to rotate at a first velocity, which is the velocity of the ink transfer roll and of the printing plate cylinder. An ink distribution roller (70) is disposed outside the loop of the belt in contact with the opposite, ink transfer surface of the belt and between the ink transfer roller and the printing plate cylinder.

