

METHOD AND APPARATUS FOR SKEW CONTROLABSTRACT OF THE DISCLOSURE

A method for correcting the skew between the leading edge of a sheet of paper (32A) and the nip (75) of a roller assembly (70) in a printing mechanism (10) includes the steps of advancing a sheet of paper into the nip and slightly therebeyond. The rollers (72, 74) are then rotated in reverse, causing the paper to retract from the roller assembly, with the angle and weight of the paper maintaining the leading edge within the nip (75). As the rollers continue to rotate backwards, the paper jiggles or dances allowing the leading edge to settle parallel with the nip under its own weight. The paper is then readvanced through the roller assembly with its leading edge parallel to the nip.

A single motor control apparatus includes a processor-controlled drive motor (55), a drive roller assembly (70), a pick roller assembly (60) and a gearing arrangement (40, 50, 56) coupling the drive motor (55) to the roller assemblies (70, 60), for selective control of the timing, speed and rotational direction thereof to achieve the above described method.

(Fig. 4)