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(54) **Title**: ACCUMULATING APPARATUS FOR DISCRETE PAPER OR FILM OBJECTS AND RELATED METHODS

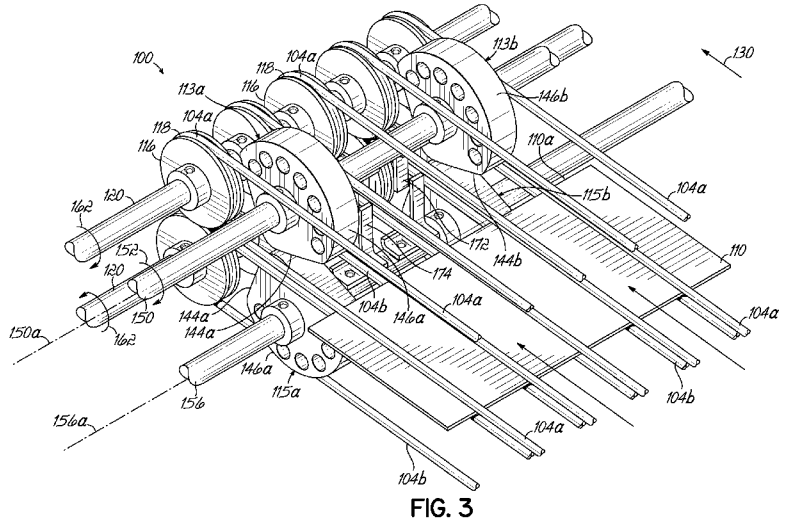

FIG. 3

(57) **Abstract**: An apparatus (100) is provided for accumulating discrete paper or film objects (110) traveling in a machine direction (130). A first accumulator (113a) element of the apparatus (100) is rotatable about a first axis of rotation (150a). A second accumulator element (115a) is disposed in confronting relationship with the first accumulator element (113a) and has a first, generally flat surface (144a), and a first arcuate surface (146a). Both of these surfaces (144a, 146a) are rotatable about the first axis of rotation (150a) and the first accumulator element (113a) has a first angular position that defines a first gap (184) relative to the second accumulator element (115a) for receiving the objects (110) there between. The first accumulator element (113a) has a second angular position that defines a second gap (284) relative to the second accumulator element (1 15a) for moving the objects (110) in the machine direction (130), with the second gap (284) being smaller than the first gap (184).

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