



ROTARY APPARATUS AND METHOD

ABSTRACT OF THE DISCLOSURE

A rotary apparatus (10) having a first rotating die assembly (12) and a second rotating die assembly (14) arranged in juxtaposition with one another on respective first and second sides of a strip work piece movement path, and operable in unison together to perform operations on a work piece (w) passing therebetween, each die assembly (12, 14) having a main rotor (26, 28) mounted for rotation, at least one die support body (42) supported by the main rotor (26, 28), and being swingable relative to the main rotor (26, 28), control cams (108, 110) connected the die support body (42), cam guides (100, 102, 104, 106) engageable by the control cams (108, 110), and die support body bearings (54) mounted on the main rotor (26, 28) for carrying the die support body (42). The die support body (42) can be self-adjusting to the linear speed on the work piece (w), before and after contact. The die (50A, 506) can have a movable portion (74) which moves in or out to provide selective operation on the work piece (w). The main rotors (26, 28) are connected by a gear drive train (22,24) with anti-backlash adjustment (138). The method of operation on a work piece (w) permits formation of a continuous series of spaced apart formations in the work piece (w) and permits skipping of formations at desired intervals to produce product of specific lengths.

FIG. 1