United States Patent [19]

Flüeli

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[54] **THREAD WINDING GEOMETRY**

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[52] **U.S. Cl.** ..... **242/18 DD**; 242/18 A; 242/65

[58] **Field of Search** ..... 242/18 DD, 18 R, 18 A, 242/65

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[57] **ABSTRACT**

The chuck of the winding machine is mounted in cantilever manner on a carrier arm which pivots on an axis which is not in parallel with the axis of rotation of the friction drive roller. The axis of rotation of the chuck is parallel to the drive roller axis at only one position in the path of movement of the chuck towards and away from the drive roller. During winding of a cylindrical thread package, the chuck deflects under the weight of the increasing thread package. This distortion displacement is compensated by the manner in which the axes of the drive roller, and carrier arm are geometrically related.

15 Claims, 16 Drawing Figures

