

Title (en)
TANGENTIAL BELT DRIVE

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Abstract (en)
[origin: US4781015A] PCT No. PCT/DE85/00401 Sec. 371 Date Jan. 23, 1987 Sec. 102(e) Date Jan. 23, 1987 PCT Filed Oct. 16, 1985 PCT Pub. No. WO86/07101 PCT Pub. Date Dec. 4, 1986. The invention relates to a tangential belt drive for a plurality of similar work units of a machine for the production of twisted or twined yarn. These units are subdivided into sections each having at least approximately the same number of work units and each driven through a tangential belt by an electric motor. Thereby, the number of work units in each section is established taking into account the required power and permissible belt stretch, so that the tangential belts have a considerably reduced width and thickness, compared to the ones commonly used. Further, the guide rollers of the tangential belts of neighboring sections are corotationally connected to each other. In order to improve synchronization and power transmission between sections, the contact angle is increased at the guide rollers and the drive pulleys. This may be done through the corresponding spatial arrangement of the drive pulleys with respect to the guide rollers or through use of an intermediate belt arrangement.

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