

Title (en)
DRIVE APPARATUS FOR THE DRAW-OFF ROLLS OF A COMBING MACHINE

Title (de)
ANTRIEBSVORRICHTUNG FÜR DIE ABREISSWALZEN EINER KÄMMMASCHINE

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT DESTINÉ AUX CYLINDRES ARRACHEURS D'UNE PEIGNEUSE

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Abstract (en)
[origin: WO2010083618A1] The invention relates to a drive apparatus for generating a step-back movement for the draw-off rolls (A1, A2) of a combing machine, which are connected by drive means (Z1-Z3) to an output shaft (9) of a differential gear (1), the rotatably mounted web (2) of which is driven by at least one drive element (20, Z) driven at a constant rotational speed, wherein the differential gear (1) has a second gear stage (G2), which comprises a sun wheel (S2) fastened non-rotatably on the output shaft (9) and planet wheels (U4 to U6) mounted rotatably in the web (2) by way of shafts (33 to 35), and a first gear stage (G1) is provided, which comprises planet wheels (U1 to U3), each of which is arranged coaxially to the planet wheels (U4 to U6) of the second gear stage (G2) and fastened non-rotatably on the shafts (33 to 35) and have a drive connection to a further sun wheel (S1), which is fastened non-rotatably to a rotatably mounted drive shaft (5), which is driven by a drive unit (4, G3) in an irregular rotary motion. In order to optimize the curve of movement of the draw-off roll, while reducing the torque to be applied at the same time, it is proposed that the drive unit be formed by a gear stage (G3) having noncircular gear wheels (42, 43), which transforms a regular rotary motion of a main drive (HA) into an irregular rotary motion.

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