Title (en)

A DEVICE FOR CONTROLLING THE CONTENT OF TOBACCO ON A CIGARETTE MANUFACTURING MACHINE

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Application

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Abstract (en)

[origin: EP0339250A1] The invention relates to a tobacco content control device for use in a cigarette manufacturing machine, wherein shredded tobacco (T) is fed by means of a hole-provided cigarette conveyor (103), is trimmed by a trimming means (104a) for regulating the amount of the shredded tobacco (T), and is then wrapped by a wrapping means, thereby producing stick-like cigarettes (S). The control device comprises a first radiometric density detector (106) for detecting the density of the shredded tobacco (T) before the tobacco content is trimmed, a second radiometric density detector (116) for detecting the density of the stick-like cigarettes (S), a feed forward control circuit (200, 202, 205, 251, 252, 253, 254, 255), and a feed back control circuit (204, 222, 224). The feed forward control circuit (200, 202, 205, 251, 252, 253, 254, 255) includes a high pass filter for picking up only high-frequency components out of a first signal supplied from the first radiometric density detector (106), and a delay circuit (200, 202, 205, 251, 252, 253, 254, 255) generates a feed forward control signal corresponding to an instantaneous variation in the first signal. The feed back control circuit (204, 222, 224) includes an integrator for integrating a second signal supplied from the second radiometric density detector (116). By use of this structural element, the feed back control circuit (204, 222, 224) includes an integrator for integrating a second signal are added together, on the basis of which the trimming means (104a) is controlled.

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