

Title (en)

SUCTION BELT CONVEYOR AND STRAND-FORMING MACHINE OF THE TOBACCO PROCESSING INDUSTRY, AND USE OF A MEASURING DEVICE IN A SUCTION BELT CONVEYOR OF A STRAND-FORMING MACHINE OF THE TOBACCO PROCESSING INDUSTRY

Title (de)

SAUGBANDFÖRDERER UND STRANGMASCHINE DER TABAK VERARBEITENDEN INDUSTRIE SOWIE VERWENDUNG EINER MESSEINRICHTUNG IN EINEM SAUGBANDFÖRDERER

Title (fr)

CONVOYEUR À BANDE D'ASPIRATION ET MACHINE À BOUDINS DE L'INDUSTRIE DE TRAITEMENT DU TABAC ET UTILISATION D'UN ÉQUIPEMENT DE MESURE DANS UN CONVOYEUR À BANDE D'ASPIRATION D'UNE MACHINE À BOUDINS DE L'INDUSTRIE DE TRAITEMENT DU TABAC

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Application

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Priority

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Abstract (en)

[origin: WO2019170725A1] A suction belt conveyor of a strand-forming machine of the tobacco processing industry for conveying material, in particular tobacco, is described, with a suction belt (4) which is guided along a suction belt path, which has a first section (I), a second section (II), a third section (III) and a fourth section (IV), a suction device (7) for subjecting the suction belt (4) to negative pressure within the first section (I) and the second section (II) of the suction belt path, and a measuring device, wherein the first section (I) of the suction belt path is arranged in such a manner that, by means of a suction effect of the suction device (7), material accumulates along a lower run (4a) of the suction belt (4), said run being guided along the first section (I) of the suction belt path, and forms a material strand on said run, the second section (II) of the suction belt path is connected downstream to the first section (I) of the suction belt path and is designed to guide the suction belt (4) with the material strand arranged thereon and formed in the first section (I) of the suction belt path, and the third section (III) of the suction belt path is connected downstream to the second section (II) of the suction belt path and is designed to separate the suction belt (4) from the material strand. The particular characteristic of the invention consists in that the measuring device has at least one first sensor (10), which is designed to measure properties of the suction belt (4) at a point in the fourth section (IV) of the suction belt path and to output a first type of measuring signal indicating the measured properties of the suction belt (4).

IPC 8 full level

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Opponent : G.D S.p.A.

- US 2018027868 A1 20180201 - MUELLER JOHANNES [DE]
- US 5103086 A 19920407 - SIEMS WOLFGANG [DE], et al
- US 2001000946 A1 20010510 - MOELLER HENNING [DE], et al
- GB 2489587 A 20121003 - HAUNI MASCHINENBAU AG [DE]
- JP 2007001138 A 20070111 - FUJI XEROX CO LTD
- US 2010176818 A1 20100715 - HERRMANN RAINER [DE], et al
- "Feuchtemessung mit der Mikrowellen-resonanz-technik", TEWS

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