

Title (en)

DEVICE FOR DETECTING THE PRESENCE OF MATERIAL TO BE CONVEYED ON THE LATERAL AREA OF A ROTATING CARRIER

Publication

EP 0146917 B1 19900314 (DE)

Application

EP 84115799 A 19841219

Priority

DE 3346347 A 19831222

Abstract (en)

[origin: EP0146917A2] 1. Equipment for recognising the presence of stock to be transported on the shell surface of a rotating transport body (2) with the aid of an optoelectrical unit containing an optical transmitter (20) and an optical receiver (21) as well as a circuit arrangement for signal evaluation, wherein the optical transmitter (20) and the optical receiver (21) are arranged to be stationary and the transmission of the light beam bundle emitted by the optical transmitter to the optical receiver takes place by means of optical conductors (8, 9), which by their one end (8', 9') open freely into the scanning zone (4) of the rotating transport body (2) and by their other end (8'', 9'') are led in axial direction out of the transport body (2) to the optical receiver (21), characterised thereby, that the opti-electrical unit operates on the reflection principle and the ends (8'', 9'') of the optical conductors (8, 9), which serve for the transmission of the transmitted light beam bundle and of the reflected light beam bundle, are so led out of the transport body (2) that the end (8'') of the optical conductor (8) also embodying the transmitted light channel is arranged centrally in a bore (10) in the shaft stub (12) of the transport body (2) and the end (9'') of the optical conductor (9) also embodying the reflected light channel is housed in a bore (17) lying eccentrically of the central axis of the shaft stub (12), wherein the shaft stub (12) is borne to be rotatable in a component (19) containing the optical transmitter (20) and the optical receiver (21) and the end (8'') of the optical conductor (8) cooperates with the optical transmitter (20) and the end (9'') of the optical conductor (9) co-operates with the optical receiver (21).

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Cited by

DE4323091A1; CN103726286A; EP1084976A3; US6055047A; DE19722593C2; GB2405464A; FR2651721A1; DE102006000866A1; DE102006000866B4; US7194151B2

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