

Title (en)

DEVICE FOR DETERMINING THE PARTICLE SIZE AND/OR THE PARTICLE SHAPE OF A PARTICLE MIXTURE

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DER PARTIKELGRÖßE UND/ODER DER PARTIKELFORM EINES PARTIKELGEMISCHES

Title (fr)

DISPOSITIF DE DÉTERMINATION DE LA TAILLE ET/OU DE LA FORME DE PARTICULES D'UN MÉLANGE DE PARTICULES

Publication

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Application

**EP 15713384 A 20150226**

Priority

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Abstract (en)

[origin: WO2015132137A1] The invention relates to a device for determining the particle size and/or the particle shape of particles (T) which are guided through a measurement path (M) as a particle stream, comprising an illuminating device (4) for illuminating the particle flow in the measurement path (M) from the rear side, a camera (5) for capturing shadow projections of particles (T) illuminated by the illuminating device (4) from the front side, and an analyzing unit (7) which determines the particle size and/or particle shape of the recorded particles (T) using the captured images of the camera (5). The camera (5) is paired with a projection device (6) which is arranged on the front side of the measurement path (M) and positioned at a triangulation angle  $\alpha$  relative to the camera (5) in order to project a light line (L) onto the particles (T) of the particle flow in the measurement path (M), said light line being captured by the camera (5). Depth information and/or geometric information on the detected particles (T) is ascertained from the shape of the light line (L) in the analyzing unit (7).

IPC 8 full level

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Citation (search report)

See references of WO 2015132137A1

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