

Title (en)

OPTOELECTRONICAL TREATMENT OF A PARTICLE FLOW OF USED PLASTIC MATERIALS

Title (de)

OPTOELEKTRONISCHES BEARBEITEN EINES TEILCHENSTROMS AUS BENUTZEM KUNSTSTOFFMATERIAL

Title (fr)

TRAITEMENT OPTOELECTRONIQUE D'UN FLUX DE PARTICULES DE MATERIAUX ORGANIQUES DE SYNTHESE USAGES

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Application

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Abstract (en)

[origin: WO2011095711A2] The invention relates to a method for the continuous optoelectronic treatment of flows of used organic synthesis materials, recyclable in the field of plastic processing, in a fragmented form of particles rendered almost homogeneous in the composition thereof but heterogeneous in colour. According to said method, coloured particles in the mass thereof of said materials, especially those coloured by cadmium compounds, are sorted and eliminated from said homogeneous flows, in continuous movement. The method is characterised in that it comprises the transformation of a flow of bulk particles into a monolayer flow, the free-falling movement of said monolayer flow forming a curtain between at least two cameras that determine the temporal and spatial coordinates of each coloured particle and the real-time transmission thereof, by software and algorithms, to means for eliminating said coloured particles.

IPC 8 full level

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