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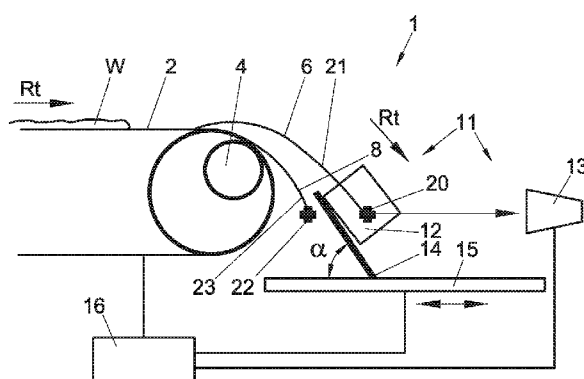


Fig. 1

(57) Abstract: Eddy current separation apparatus (1) for separating particles (20) from a particle stream (w), wherein the apparatus (1) comprises a separator drum (4) adapted to create a first particle fraction (21) and a second particle fraction (23), a feeding device (2) upstream of the separator drum (4) for supplying particles (20) to said separator drum (4), and a splitter element (14) provided downstream of the separator drum (4) for splitting the respective fractions (21,23), wherein the apparatus (1) further comprises a sensor device (11,111,211) arranged for detecting particles (20), at least a number and/or material properties thereof, from at least part of one of the particle fractions (21), wherein the separation apparatus (1) is configured to adjust, in use, a position and/or orientation of the splitter element (14) with respect to the separator drum (4) and/or a transporting velocity of the feeding device (2) in dependence of a signal from the sensor device (11,111,211) based on the number and/or material properties of the detected particles (20).

