

Title (en)
DEVICES FOR ALIGNING MAGNETIC OR MAGNETIZABLE PARTICLES, MACHINE AND METHOD FOR GENERATING OPTICALLY VARIABLE IMAGE ELEMENTS

Title (de)
VORRICHTUNGEN ZUM AUSRICHTEN VON MAGNETISCHEN ODER MAGNETISIERBAREN PARTIKELN, MASCHINE UND VERFAHREN ZUR ERZEUGUNG OPTISCH VARIABLER BILDELEMENTE

Title (fr)
DISPOSITIFS D'ORIENTATION DE PARTICULES MAGNÉTIQUES OU MAGNÉTISABLES, MACHINE ET PROCÉDÉ DE PRODUCTION D'ÉLÉMENTS D'IMAGE OPTIQUEMENT VARIABLES

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Abstract (en)
[origin: WO2020020507A1] The invention relates to devices for aligning magnetic or magnetizable particles, which are contained in a coating means (06) applied on one side of a substrate (02), which is in the form of a web or sheet, having a magnet cylinder (33), which is arranged in the transport path of the substrate (02) to be conveyed and, in the region of the outer circumference thereof, has a plurality of devices (34) effecting a magnetic field, or magnet devices (34) for short, wherein some or all of the magnet devices (34) comprise a magnet (44) which is rotatable by an associated motor (46). The magnet cylinder (33) is rotatably arranged in frame walls (38; 39) of a frame, and at least one transducer (63) for contactless transfer of electrical energy and/or control signals from the outside is provided in or on the rotating magnet cylinder (33), which comprises a transducer part (64) fixed to the frame and a transducer part (66) fixed to the cylinder during operation.

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