

Title (en)

DEVICE FOR THE CONTINUOUS ADJUSTMENT OF UNBALANCE OF STEERABLE VIBRATION PLATES

Title (de)

VORRICHTUNG ZUR STUFENLOSEN UNWUCHTVERSTELLUNG BEI LENKBAREN VIBRATIONSPLATTEN

Title (fr)

DISPOSITIF DE REGLAGE CONTINU DE MASSES NON EQUILIBREES DE PLAQUES VIBRANTES ORIENTABLES

Publication

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Application

EP 01997363 A 20011121

Priority

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Abstract (en)

[origin: WO0242010A1] The invention relates to steerable vibration plates that are set vibrating by rotating unbalanced masses. By twisting the unbalanced masses relative to one another the resulting forces and their direction of action can be changed, thereby influencing the travel speed of the vibrating plate and its direction of travel. The inventive vibration plate is characterized in that the unbalanced masses disposed on a common shaft can be adjusted independent of external forces and torques since the adjustment piston (12a; 12b) adjusting the unbalanced masses is braced in the adjustment cylinder to a much higher degree than would be possible with conventional coil springs. To this end, every adjustable unbalanced mass is associated with a double-action hydraulic cylinder (10a; 10b) that comprises two liquid chambers (14a, 16a; 14b, 16b). The connection of said chambers to a storage (30) and a pump (34) can be locked in order to fix the piston (12; 12b) which can be adjusted within the hydraulic cylinder (10a; 10b).

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