

Title (en)

ADJUSTING DEVICE FOR AN UNBALANCE VIBRATOR WITH ADJUSTABLE CENTRIFUGAL MOMENT

Title (de)

VERSTELLEINRICHTUNG FÜR EINEN UNWUCHT-RICHTSCHWINGER MIT VERSTELLBAREM FLIEHMOMENT

Title (fr)

DISPOSITIF DE REGLAGE POUR VIBRATEUR A BALOURD AVEC COUPLE CENTRIFUGE REGLABLE

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Application

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Abstract (en)

[origin: DE19543910A1] An adjusting device for an unbalance vibrator with adjustable centrifugal moment. The invention concerns specifically the specialised category of vibrators in which each unbalance shaft has its own motor (110, 112, 114, 116) and no transmission system is provided for connecting the minimum of four unbalance shafts. A novel way of hydraulically actuating the motors is described for ram vibrators of this type provided with four hydraulic motors (110, 112, 114, 116). This involves connecting two motors (the ones allocated to the two unbalance shafts which always rotate synchronously counter to one another even during adjustment) in parallel to their own respective hydraulic circuits. Each of the two hydraulic circuits (118, 120) has its own pump (P1, P2) and the pressures in the forward flow and/or back flow lines can be adjusted independently from the outside by a control and regulation device (126, 128) in such a way that they can be used to set the centrifugal moment in a predetermined manner. A particular advantage lies in the fact that all the motors (110, 112, 114, 116) are subjected to the same load when the centrifugal moment is greatest. In a special embodiment, both pumps (P1, P2) can also be used in open circulation.

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