

Title (en)

A vibrator for compacting soil and the like.

Title (de)

Rüttelgerät zum Verdichten vom Boden od. dgl.

Title (fr)

Vibrateur pour compacter le sol et analogue.

Publication

**EP 0054529 A1 19820623 (EN)**

Application

**EP 81850239 A 19811211**

Priority

SE 8008759 A 19801212

Abstract (en)

The invention relates to a vibrator for compacting soil. The object of the invention is to provide a vibrator having an improved manoeuvrability. The vibrator comprises a bottom plate (8) and a vibratory element (10) supported thereby. The vibratory element comprises two in synchronized opposite directions rotatable shafts (62, 64) driven by hydraulic motors and each supporting an excentric weight (66, 68). The relative position of the excentric weights is adjustable in order to impart to the vibratory element a vibratory motion which has the desired direction. The vibratory element (10) comprises two hydraulic motors (12, 14) connected with each of the shafts which are connected with each other by means of a device (70, 72) for transmitting the rotational motion of the one shaft to the other shaft. At least one portion of the motion transmission device connected with the one of the shafts is rotatable in relation to the shaft between two engagement positions which are positioned at an angle distance from each other. The vibrator comprises a control device (30) for supplying a main flow of hydraulic fluid to either the one or the other hydraulic motor (12, 14). On each occasion the shafts are driven by the one or the other hydraulic motor, one of the shafts being thereby driven directly and the other shaft being driven indirectly through the motion transmission device. Thereby the portion of the motion transmission device rotatable in relation to its shaft takes different engagement positions dependent on whether the portion connected with the shaft is driven directly by the hydraulic motor connected with said shaft or indirectly by the hydraulic motor connected with the other shaft.

IPC 1-7

**E02D 3/074**

IPC 8 full level

**E02D 3/074** (2006.01)

CPC (source: EP)

**E02D 3/074** (2013.01)

Citation (search report)

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