

Abstract

DEVICE FOR VIBRATION COMPACTION OF SAND GROUNDS

Subject: A device for vibration compaction of sand grounds enabling increase in the area of improvement for a sand ground by a rod compaction method as much as possible, reductions of repetitive operations of small pitch construction through simultaneous operation, and reductions in construction costs.

Means of Solution: The present invention is a device for vibration compaction of sand grounds, the device being arranged to have a substantially box-shaped manner, and comprising a beam 16 for mounting rods of which lower surface is fixedly attached with a plurality of rods 18 at constant intervals in a perpendicular manner and a vibro hammer 17 fixedly attached to a central portion on an upper surface of the beam 16 for mounting rods, wherein the vibro hammer 17 is coupled to a main wire 14 of a crawler crane 10 such that the vibro hammer 17, the beam 16 for mounting rods, and the rods 18 can simultaneously perform vertical movements; the rod compaction device further comprising a box-shaped metallic holder 19 maintaining the respective rods 18 at a constant interval and allowing vertical movements of the rods 18, wherein the respective rods

18 are fitted with play into play inserting holes 19a of the respective rods 18 provided at the holder 19 and wherein the holder 19 is coupled to an auxiliary wire 15 of the crawler crane 10.

Fig. 1