

Title (en)

METHOD OF SINKING SHAFTS AND APPARATUS TO CARRY OUT THIS METHOD

Publication

EP 0029020 B1 19840208 (DE)

Application

EP 80890127 A 19801024

Priority

AT 721079 A 19791109

Abstract (en)

[origin: US4379594A] For sinking of shafts, a cutting machine (1) is provided having its cutting arm (3) pivotable around a vertical axis (4) and a horizontal axis (5). The cutting arm (3) carries cutting heads (14) which are rotatable around an axis (15) horizontally arranged and extending perpendicularly relative to the axis of the cutting arm. The shaft is now sunk around its circumference (9) in direction of its axis (10), for which purpose first the uppermost lead of a screw surface is prepared. On this uppermost lead of the screw surface the cutting machine is advanced until the cutting heads (14) contact the shaft wall (9). In the following, a floor cut (19) is made whereupon a further floor cut (20) is made at a lower level. Starting from a corresponding position of the cutting machine surfaces (23, 24) are cut free starting from the shaft wall (9). This manner of operation is continued thereby repeating the previous process steps until the whole screw surface is cut free, the cutting machine thereby being moved in backward direction. Any area (30) possibly remaining close to the axis of the shaft and being not within the operating range of the cutting arm can subsequently be broken away or be removed by cutting operating in another position of the cutting machine (FIG. 2).

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