Title (en)

LIFTING JACK

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0216959A1] The invention aims at obtaining a mechanical lifting jack of minumum height and in which friction on rotation of the rotating parts is low even under high load. The lifting jack comprises a rigid body (17) defining a cylindrical ram passage (41) and a planar base (28).
A cylindrical plate (83) rests above the interior surface of base (28) and supports a beveled gear (27). A threaded screw bar (14) is attached to beveled gear (27) and extends upwardly therefrom. A threaded sleeve (21) is received by screw base (14) and supports a ram (16). The latter is movable within ram passage (41) and terminates in a load bearing head (10). A pinion gear (90) is supported in engagement with beveled gear (27) and is coupled to a conventional ratchet drive (92). A siding pad (29) formed of a layer of a fluorine resin material having a low frictional coefficient and self-lubricating property, is interposed between plate (83) and base (28) to act as a bearing for beveled gear (27).

IPC 1-7

B66F 3/08; B66F 3/16

IPC 8 full level

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CPC (source: EP)

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Cited by

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