

Title (en)
CHAIN HOIST

Title (de)
KETTENZUG

Title (fr)
PALAN À CHAÎNE

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EP 3395746 B1 20191009 (DE)

Application
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Abstract (en)
[origin: CA3002452A1] The invention relates to a chain hoist for the lifting, lowering and pulling of loads, comprising a housing (1), in which a chain wheel (17), around which a load chain (20), provided at its end with a draw hook (21), is looped under form closure, and a shaft (10), which drives the chain wheel (17), preferably via a gearbox (15), are rotatably mounted; a threaded disc (22), which, with its internally arranged thread, is in screw connection with an external thread (23) of the shaft (10), and is provided with a drive gear tooth system (26) for the engagement of a force element (11) moved by manual or motorized means means; a brake disc (25), which is rotatable with respect to the shaft and the threaded disc (22), having a first braking surface, which is directed towards a, relative to the shaft (10), rotationally fixed drive surface (10A), and a second braking surface, which is directed towards the rotary disk (22), and having locking teeth (25A), arranged on the brake disc (25), for the unilaterally blocking engagement of a safety catch (27) mounted on the housing (1); a freewheel device (12), which is configured to increase the axial distance between threaded disc (22) and drive surface (10A). In order to defuse dangerous, albeit only rare, extreme situations, as can arise, above all, when the freewheel is switched on, it is proposed that on the threaded disc (22) is arranged at least one centrifugal element (31, 32) which is rotationally fixed relative thereto, and which on the outside is provided with a friction surface (34), and that the centrifugal element (31, 32) is expandable outwards counter to the force of a spring (39) to the point of contact of the friction surface (34) with a braking surface (33) configured on the housing (1).

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Cited by
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