

Title (en)  
LIFTING GEAR

Title (de)  
HEBEZEUG

Title (fr)  
APPAREIL DE LEVAGE

Publication  
**EP 4003897 A1 20220601 (DE)**

Application  
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Abstract (en)  
[origin: CA3164748A1] The invention relates to lifting gear, in particular a lever hoist (1). This comprises a housing (2) in which a load chain wheel (17) and a driveshaft (20) driving the load chain wheel (17) via a transmission (18) are rotatably mounted, as well as a drive (12), a load pressure brake (16) and a safety brake (30). A load chain (10) can be moved via the load chain wheel (17). The safety brake (30) brings about an emergency braking in the event of excessive rotational speed of the driveshaft (20). The safety brake (30) comprises a locking disc (30) with locking teeth (33) and a control disc (34) with control cams (35), as well as a catch hook (36). The locking disc (32) and the control disc (34) can be rotated in a limited manner in relation to one another. The rotation is limited by a rotation limiter (47). The catch hook (36) is arranged such that it moves in a swivelling manner and has a latch contour (56) at a front end (55) and a sensing contour (61) at a rear end (60). The sensing contour (61) rests on the control disc (34) under the influence of a spring element (44). When a defined rotational speed is exceeded, the sensing contour (61) of the catch hook (36) lifts off the control disc (34). The latch contour (56) rotates towards the locking disc (32) and lockingly engages with a locking tooth (33) of the locking disc (32).

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