

Title (en)  
CONCRETE SLAB LIFTING SYSTEM

Title (de)  
BETONPLATTENHEBESYSTEM

Title (fr)  
SYSTEME DE LEVAGE DE DALLES EN BETON

Publication  
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Application  
**EP 03781135 A 20031219**

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Abstract (en)  
[origin: WO2004057122A1] The invention provides a system and method of lifting and conveying a concrete slab and/or associated works. The slab has an area includes a plurality of apertures therethrough. A jack at least comprising a shaft having a portion passes through the aperture and contacts a lower support means. The system includes a means for connecting the slab to the shaft. The connection means incorporates at least one supporting member connecting the slab to the shaft. Each supporting member passes through another said aperture and engages the slab. Also included is a means for effecting longitudinal travel of said supporting means along said shaft, resulting in the raising or lowering of said slab. Position sensors are associated with each jack and the system includes a means for communicating and controlling between each jack and one or more main controllers. There is also provided a jack for lifting a concrete slab which includes a shaft and ball screw, a drive assembly, a hanger assembly, a support device. The drive assembly drives the ball screw to raise the shaft with respect to the hanger assembly such that the jack has climbed the support device supports the shaft to prevent toppling and provide stability.

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IPC 8 full level  
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**B66F 3/08** (2013.01 - EP US); **B66F 3/46** (2013.01 - EP US); **E04B 1/3511** (2013.01 - EP US)

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