

Title (en)  
A SHORT OPTICAL ENCODER

Title (de)  
KURZER OPTISCHER KODIERER

Title (fr)  
CODEUR OPTIQUE DE FAIBLE LONGUEUR

Publication  
**EP 1093565 A2 20010425 (EN)**

Application  
**EP 99945728 A 19990423**

Priority

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Abstract (en)  
[origin: WO9954683A2] An optical encoder has a rotor part (1604) with an inner end arranged to provide pressure to keep the inner race of a motor shaft bearing axially pressed against a step of shaft bearings, to keep the encoder stator (1607) axially and radially fixed relative to the encoder rotor, and a flat spring (1623) that permits run-out between the encoder stator and a motor rear shield (1612) without causing significant rotational movements between the encoder stator and the motor rear shield. The encoder rotor carries an encoder disc (1603) at its other end, a light illuminating device (1615) in the encoder stator providing light passing axially through the encoder disc and detected by light sensors (1616), this arrangement giving the encoder a small axial length.

IPC 1-7  
**G01D 1/00**

IPC 8 full level  
**G01D 5/347** (2006.01)

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