

Title (en)  
POSITION DRIVE FOR RAILWAY SWITCHES

Publication  
**EP 0064249 B1 19870624 (DE)**

Application  
**EP 82103499 A 19820424**

Priority  
US 26011081 A 19810504

Abstract (en)  
[origin: ES8303210A1] A high-speed switch machine for actuating railroad switch points. The machine has an electric motor which drives a hydraulic pump. The pump supplies pressure fluid to a hydraulic cylinder adapted to move the switch points from an initial to a second limit position. A four-way, two-position hydraulic control valve directs fluid to the cylinder such that the cylinder automatically operates in an extension and retraction cycle. The uni-directional motor and two-position control valve minimize response times of the actuating components so that the switch points are thrown in a short time period.

IPC 1-7  
**B61L 5/04**

IPC 8 full level  
**B61L 5/04** (2006.01)

CPC (source: EP US)  
**B61L 5/045** (2013.01 - EP US)

Cited by  
EP1022207A1; US5462245A; AT397790B; EP3409561A1; IT201700059882A1; EP3564089A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0064249 A1 19821110; EP 0064249 B1 19870624**; AT E27940 T1 19870715; AU 528711 B2 19830512; AU 8074182 A 19821111; BR 8202531 A 19830419; CA 1176743 A 19841023; DE 3276630 D1 19870730; ES 510377 A0 19830201; ES 8303210 A1 19830201; JP S57191161 A 19821124; US 4428552 A 19840131; ZA 821166 B 19830126

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**EP 82103499 A 19820424**; AT 82103499 T 19820424; AU 8074182 A 19820223; BR 8202531 A 19820503; CA 396465 A 19820217; DE 3276630 T 19820424; ES 510377 A 19820312; JP 7251282 A 19820428; US 26011081 A 19810504; ZA 821166 A 19820223