

Title (en)  
SINGLE MOTOR ROBOT

Publication  
**EP 0457858 A4 19920422 (EN)**

Application  
**EP 90911018 A 19900621**

Priority  
US 37047089 A 19890623

Abstract (en)  
[origin: WO9100555A1] A low cost robot (10) is constructed using a constant speed motor (12) which drives a gear box (14) having two output shafts (16, 18) which rotate in opposite directions. Each of the shafts (16, 18) has a brake disk (20) thereon and independently rotatable about the shaft (16, 18) is a brake caliper (26, 54) assembly which is in turn connected via a chain (42, 58) to a tool bearing member (48) to be moved. By variously activating one, the other or both of the calipers (26, 54), position and speed of the tool arm 50) can be exactly controlled. More than one arm or axis may be controlled off of the motor (12) leading to further economies of manufacture.

IPC 1-7  
**G05B 19/10**

IPC 8 full level  
**B25J 9/04** (2006.01); **B25J 19/00** (2006.01)

CPC (source: EP)  
**B25J 9/04** (2013.01); **B25J 19/0004** (2013.01)

Citation (search report)

- [A] DE 3504233 A1 19861127 - KRAEMER KLAUS KK AUTOMATION [DE]
- [A] DE 3122290 A1 19821223 - KRAEMER KLAUS KK AUTOMATION [DE]
- [AP] SOVIET PATENTS ABSTRACTS Section PQ, Week 9013, 9 May 1990 Derwent Publications Ltd., London, GB; Class P62, AN N90-075077 (VOROSH DIESEL WKS)
- See references of WO 9100555A1

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**US 9003537 W 19900621**; CA 2019569 A 19900621; EP 90911018 A 19900621; FR 9106863 A 19910606