

Title (en)  
Zigzag mechanism.

Title (de)  
Zigzag-Mechanismus.

Title (fr)  
Mécanisme zigzag.

Publication  
**EP 0032485 A1 19810722 (EN)**

Application  
**EP 81850007 A 19810114**

Priority  
SE 8000309 A 19800115

Abstract (en)  
A frame (10) of a needle bar mechanism is mounted in a sewing machine arm and supports the swingable needle bar holder (13) by which the zigzag motion of the needle is enabled. A stepping motor (24) is mounted in the frame and connected by means of a link (26) from the shaft of the motor to the needle bar holder. The motor is controlled by stich codes supplied by amplification circuits and automatic control devices. Owing to the design of the link, the driving arrangement can be provided with calibration and an elastic engagement between the motor shaft and the needle bar holder. The transfer distance through only one link is short so the friction loss is small which in combination with a small keeping torque of the needle bar will restrict the dimension of the stepping motor.

IPC 1-7  
**D05B 3/02**

IPC 8 full level  
**D05B 19/14** (2006.01)

CPC (source: EP)  
**D05B 19/14** (2013.01)

Citation (search report)  
US 4145983 A 19790327 - LAW JOSEPH P, et al

Cited by  
EP0219558A1; EP0233307A3; US4398481A

Designated contracting state (EPC)  
CH DE FR GB IT

DOCDB simple family (publication)  
**EP 0032485 A1 19810722; EP 0032485 B1 19840711; DE 3164626 D1 19840816; SE 423912 B 19820614; SE 8000309 L 19810716**

DOCDB simple family (application)  
**EP 81850007 A 19810114; DE 3164626 T 19810114; SE 8000309 A 19800115**