

Title (en)  
Zig-zag sewing machine.

Title (de)  
Zickzack-Nähmaschine.

Title (fr)  
Machine à coudre zig-zag.

Publication  
**EP 0377404 A2 19900711 (FR)**

Application  
**EP 89810868 A 19891113**

Priority  
CH 443988 A 19881130

Abstract (en)  
In this sewing machine, the needle bar (1) is mounted slidably in two bearings (12, 13), the outer face of which has a spherical profile and which are engaged pivotably in respective seats of complementary profile formed in a fixed support (14) as regards the upper bearing and in a movable lever (15) as regards the lower bearing. This lever is alternately tilted in two opposite directions under the action of a stepping motor (18) engaging directly on the movable lever (15) as a result of the meshing of a pinion (19) with a peripheral toothing (17) which the movable lever carries. The motor, fixed support, movable lever, bearings and needle bar form an independent and removable unit. <IMAGE>

Abstract (fr)  
Dans cette machine à coudre, la barre-aiguille (1) est montée coulissante dans deux paliers (12, 13) dont la face externe présente un profil sphérique et qui sont engagés à pivotement dans des sièges respectifs de profil complémentaire, ménagés dans un support fixe (14), pour le palier supérieur, et dans un levier mobile (15), pour le palier inférieur. Ce levier est basculé alternativement dans deux directions opposées sous l'action d'un moteur pas-à-pas (18) faisant directement prise sur le levier mobile (15) par engrenement d'un pignon (19) avec une denture périphérique (17) que porte le levier mobile. Le moteur, le support fixe, le levier mobile, les paliers ainsi que la barre-aiguille forment un agrégat autonome et amovible.

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**D05B 3/02; F16C 25/04**

IPC 8 full level  
**D05B 3/00** (2006.01); **D05B 3/02** (2006.01)

CPC (source: EP KR US)  
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**EP 0377404 A2 19900711; EP 0377404 A3 19900829; EP 0377404 B1 19930526**; AU 4570289 A 19900607; AU 4570389 A 19900607; AU 621421 B2 19920312; AU 621422 B2 19920312; BR 8906042 A 19900619; BR 8906043 A 19900619; CA 2003958 A1 19900531; CA 2003959 A1 19900531; CH 676999 A5 19910328; CN 1025537 C 19940727; CN 1025538 C 19940727; CN 1043169 A 19900620; CN 1043172 A 19900620; DD 289301 A5 19910425; DD 289302 A5 19910425; DE 68906774 D1 19930701; DE 68906774 T2 19940105; DE 68907884 D1 19930902; DE 68907884 T2 19940310; EP 0377403 A2 19900711; EP 0377403 A3 19900822; EP 0377403 B1 19930728; ES 2043096 T3 19931216; ES 2044212 T3 19940101; JP H02182284 A 19900716; JP H02182285 A 19900716; KR 900008093 A 19900602; KR 910009993 A 19910628; PT 92429 A 19900531; PT 92429 B 19950809; PT 92430 A 19900531; PT 92430 B 19950912; RU 2050425 C1 19951220; US 5063865 A 19911112; US 5099776 A 19920331; ZA 899035 B 19900926; ZA 899171 B 19900926

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