

Title (en)  
Sewing machine

Title (de)  
Nähmaschine

Title (fr)  
Machine à coudre

Publication  
**EP 2660378 B1 20150401 (DE)**

Application  
**EP 13162861 A 20130409**

Priority  
DE 102012207257 A 20120502

Abstract (en)  
[origin: EP2660378A1] The machine has a hopper mechanism (19) connected to a conveyor base (20) and a presser foot (21) for alternately skipping, raising and lowering on the conveyor base. The hopper mechanism is articulated through a hopper element (24) on a transport foot rod (22) to a presser foot rod (23) and a hopper drive (25). A support plate is carried-out perpendicular to a transfer path without driving operation of the hopper element. A drive element (32) is connected to a frame (15) through a lever part (43).

IPC 8 full level  
**D05B 27/24** (2006.01); **D05B 29/02** (2006.01)

CPC (source: EP KR)  
**D05B 27/20** (2013.01 - KR); **D05B 27/24** (2013.01 - EP); **D05B 29/02** (2013.01 - EP); **D05B 55/14** (2013.01 - KR)

Citation (examination)

- DE 3423843 C2 19870430
- JP H02193693 A 19900731 - JUKI KK
- DE 3043141 A1 19820729 - DUERKOPFWERKE [DE]
- US 3196815 A 19650727 - VON HAGEN WOLF-RUDIGER
- DE 4230747 A1 19940317 - DUERKOPP ADLER AG [DE]
- DE 3724787 A1 19890216 - PFAFF IND MASCH [DE]
- EP 2330241 A1 20110608 - DUERKOPP ADLER AG [DE]

Cited by  
EP2975169A1; EP3133198A1; US2023250569A1; US11946182B2; US10851483B2; WO2017067900A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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KR 102015312 B1 20190828; KR 20130123319 A 20131112; TW 201400664 A 20140101; TW I595134 B 20170811

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