

Title (en)

Switchable needle bar drive device

Title (de)

Schaltbare Nadelstangen-Antriebsvorrichtung

Title (fr)

Dispositif d'entraînement de barre-aiguilles commutable

Publication

EP 2206817 B1 20110622 (DE)

Application

EP 09177483 A 20091130

Priority

DE 102009004219 A 20090109

Abstract (en)

[origin: EP2206817A1] The switchable needle bar drive apparatus has two needle bars (9,10) provided over a switching device. The needle bars are driven upward and downward in a sewing condition during the operation of the sewing machine (1). An upper guide section is provided with a lower guide edge, where a lower guide section is provided with an upper guide edge.

IPC 8 full level

D05B 55/10 (2006.01); **D05B 55/14** (2006.01)

CPC (source: EP)

D05B 55/10 (2013.01); **D05B 55/14** (2013.01)

Cited by

EP3088589A1; CZ308429B6

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2206817 A1 20100714; EP 2206817 B1 20110622; AT E513942 T1 20110715; CN 101775713 A 20100714; CN 101775713 B 20130501; DE 102009004219 A1 20100715

DOCDB simple family (application)

EP 09177483 A 20091130; AT 09177483 T 20091130; CN 201010001455 A 20100108; DE 102009004219 A 20090109