

Title (en)  
SEWING MACHINE WITH ADJUSTABLE DOUBLE NEEDLE DISTANCE

Title (de)  
NÄHMASCHINE MIT VERSTELLBAREM DOPPELNADELABSTAND

Title (fr)  
MACHINE À COUDRE À DISTANCE D#AIGUILLE DOUBLE RÉGLABLE

Publication  
**EP 3875654 A1 20210908 (EN)**

Application  
**EP 20202657 A 20201019**

Priority  
TW 109107028 A 20200304

Abstract (en)  
A sewing machine (1) includes a sewing head (11) having an upper shaft (142), a needle bar (151) and two needles (153), a double needle distance adjusting mechanism (30) and a double needle distance driving mechanism (40). The upper shaft (142) brings the needle bar (151) to move upward and downward, causing two needles (153) connected thereto to move synchronously. The double needle distance adjusting mechanism (30) includes an adjustment stem (31) extended through the needle bar (151) and brought by the double needle distance driving mechanism (40) to rotate, and an adjustment unit (32) located between the adjustment stem (31) and the two needles (153). The adjustment stem (31) in rotating enables the adjustment unit (32) to sidewardly move at least one of the two needles (153), so that the two needles (153) are located closer to or farther away from each other. With these arrangements, the distance between the two needles (153) of the sewing machine is adjustable at any time in the course of sewing workpieces requiring different double needle distances.

IPC 8 full level  
**D05B 55/12** (2006.01)

CPC (source: EP KR)  
**D05B 19/14** (2013.01 - KR); **D05B 55/12** (2013.01 - EP KR); **D05B 55/16** (2013.01 - KR)

Citation (search report)  
• [XAYI] US 3339507 A 19670905 - BUNSAKU TAKETOMI  
• [Y] US 5765493 A 19980616 - AKAHANE KOHICHI [JP], et al  
• [Y] CN 102605560 B 20130306 - NINGBO SUPREME ELECTRONIC TECH  
• [Y] EP 2565313 A1 20130306 - JUKI KK [JP]

Cited by  
EP4257739A1

Designated contracting state (EPC)  
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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3875654 A1 20210908**; **EP 3875654 B1 20230719**; JP 2021137550 A 20210916; JP 7098704 B2 20220711; KR 102466108 B1 20221110; KR 20210113018 A 20210915; TW 202134498 A 20210916; TW I722814 B 20210321

DOCDB simple family (application)  
**EP 20202657 A 20201019**; JP 2020206883 A 20201214; KR 20200179478 A 20201221; TW 109107028 A 20200304