

Title (en)

Electric shedding machine of loom

Title (de)

Elektrische Fachbildungsvorrichtung für eine Webmaschine

Title (fr)

Dispositif électrique de formation de la foule pour un métier à tisser

Publication

EP 1739216 A1 20070103 (EN)

Application

EP 06012972 A 20060623

Priority

JP 2005189856 A 20050629

Abstract (en)

An electric shedding machine (1) of a loom includes heald frames (2), motors (3) driving the heald frames (2), a setting device (5), a storage device (7), a calculating device (8), and a controlling device (6). The setting device (5) sets a weaving condition including factors including a weaving pattern, rotational speed of the loom, weft type, weft density, and textile width. The storage device (7) stores a shedding motion condition database including weaving conditions and shedding motion conditions, which include a dwell period and a dwell phase and is related to the weaving conditions, to drive the heald frames (2). The calculating device (8), on the basis of the set weaving condition and the shedding motion condition database, immediately extracts the shedding motion condition corresponding to the set weaving condition when such corresponding shedding motion condition exists or performs interpolation calculation of a shedding motion condition corresponding to the set weaving condition from a weaving condition related to the set weaving condition when such corresponding shedding motion condition does not exist. The controlling device (6) controls rotations of the motors (3) on the basis of the extracted or interpolated shedding motion condition.

IPC 8 full level

D03D 51/46 (2006.01); **D03C 5/00** (2006.01); **D03J 1/00** (2006.01)

CPC (source: EP)

D03C 5/00 (2013.01); **D03C 13/025** (2013.01); **D03D 51/46** (2013.01); **D03J 1/005** (2013.01)

Citation (search report)

- [Y] EP 1065306 A2 20010103 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [Y] EP 1486597 A2 20041215 - TSUDAKOMA IND CO LTD [JP]
- [A] EP 0761856 A2 19970312 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13 5 February 2001 (2001-02-05)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1739216 A1 20070103; CN 1891876 A 20070110; CN 1891876 B 20100929; JP 2007009355 A 20070118

DOCDB simple family (application)

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