

## Title (en)

Drive unit for weaving looms with a high degree of use flexibility, provided with safety controlling device for possible critical phase displacements of the moving mechanical members and weaving process using such unit

## Title (de)

Antriebseinheit für Webstühle mit hoher Verwendungsflexibilität mit Sicherheitssteuervorrichtung für möglicherweise kritische Phasenverschiebungen der mechanisch beweglichen Elemente und Webverfahren mit der Einheit

## Title (fr)

Unité de commande pour métiers à tisser avec un degré élevé de souplesse d'utilisation, dotée d'un dispositif de contrôle de la sécurité pour des déplacements critiques éventuels des éléments mécaniques mobiles et procédé de tissage utilisant ladite unité

## Publication

**EP 2341170 A1 20110706 (EN)**

## Application

**EP 10197114 A 20101228**

## Priority

IT MI20092337 A 20091230

## Abstract (en)

Drive unit (1) for weaving looms, of the type comprising a first electric motor (2) driving the moving members of the loom (T) which cause the insertion and beating of the weft, a second electric motor (3) driving the weaving machine (A) which causes the opening/closing movement of the warp yarns for shed forming and an electric-axis control system to maintain the synchronisation and/or the desired degree of phase displacement between said moving members of the loom (T) and said weaving machine (A). Said first and second motor (2, 3) are mounted coaxially and are both provided with a second power takeoff, said second power takeoffs being adjacent and mutually connected through an electromagnetic connection, disengageable by energising the electromagnet.

## IPC 8 full level

**D03D 51/02** (2006.01)

## CPC (source: EP)

**D03C 1/146** (2013.01); **D03D 51/02** (2013.01)

## Citation (applicant)

- EP 1158081 A1 20011128 - PROMATECH SPA [IT]
- WO 9831856 A1 19980723 - PICANOL NV [BE], et al
- EP 1600542 A2 20051130 - SMIT S P A UNIPERSONALE [IT]
- EP 1312709 A1 20030521 - PROMATECH SPA [IT]
- EP 1775361 A2 20070418 - SMIT S P A UNIPERSONALE [IT]
- US 7114527 B2 20061003 - VON ZWEHL DIETMAR [DE], et al
- WO 2006039912 A1 20060420 - DORNIER GMBH LINDAUER [DE], et al

## Citation (search report)

- [AD] EP 1312709 A1 20030521 - PROMATECH SPA [IT]
- [A] US 6247503 B1 20010619 - SHAW HENRY [FR], et al
- [A] EP 1191137 A2 20020327 - BARUFFALDI SPA [IT]
- [A] US 4875565 A 19891024 - DEPOLI ERMINIO [IT]
- [A] DE 10225037 A1 20031224 - DORNIER GMBH LINDAUER [DE]

## Cited by

CN110501286A

## 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

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**EP 2341170 A1 20110706; EP 2341170 B1 20121003**; CN 102115941 A 20110706; CN 102115941 B 20140514; HK 1159196 A1 20120727; IT 1397372 B1 20130110; IT MI20092337 A1 20110630; JP 2011137280 A 20110714

## DOCDB simple family (application)

**EP 10197114 A 20101228**; CN 201010613085 A 20101230; HK 11113403 A 20111212; IT MI20092337 A 20091230; JP 2010292122 A 20101228