

## Title (en)

Rapier, method of manufacturing same, device for inserting weft yarns comprising such a rapier and loom equipped with such a device

## Title (de)

Greifer, sein Herstellungsverfahren, Vorrichtung zum Eintragen von Schussfäden, die mit einem solchen Greifer ausgestattet ist, und Webmaschine mit einer derartigen Vorrichtung

## Title (fr)

Lance, son procédé de fabrication, dispositif d'insertion de fils de trame comprenant une telle lance et métier à tisser comprenant un tel dispositif

## Publication

**EP 1876273 A1 20080109 (FR)**

## Application

**EP 07356091 A 20070706**

## Priority

FR 0606210 A 20060707

## Abstract (en)

The weft-insertion lance for weaving loom, comprises a flexible part, a claw (111) for fixing the weft yarn, and immobilization units (115, 116) for exerting a pinching effort of each strap in a corresponding housing. The claw is fixed on an end (1121) of the flexible part. The end comprises a longitudinal slit (1122) in which a reinforcement is immobilized. The reinforcement has the reception housing of strap for mounting the claw. The immobilization unit comprises a screw adapted to cooperate with a thread mounted on a related nut on the end of the flexible part, and a stud. The weft-insertion lance for weaving loom, comprises a flexible part, a claw (111) for fixing the weft yarn, and immobilization units (115, 116) for exerting a pinching effort of each strap in a corresponding housing. The claw is fixed on an end (1121) of the flexible part. The end comprises a longitudinal slit (1122) in which a reinforcement is immobilized. The reinforcement has the reception housing of strap for mounting the claw. The immobilization unit comprises a screw adapted to cooperate with a thread mounted on a related nut on the end of the flexible part, and a stud. The nut is immobilized on the end of the flexible part in rotation with an axis of thread. The nut transports against an external surface of the reinforcement, against the strap in place of the housing and on a portion of the end of the flexible part in support against the reinforcement, when the screw is tight in the thread. The thread is produced in a portion of the end of the flexible part. Independent claims are included for: (1) an insertion device; (2) a loom; and (3) a process for manufacturing a loom.

## Abstract (fr)

Cette lance (11) comprend une partie flexible (112) et une griffe (111) d'accrochage d'un fil de trame, fixée sur une extrémité (1121) de la partie flexible. Cette extrémité (1121) comporte une fente longitudinale (1122) dans laquelle est immobilisé un renfort (113), ce renfort étant pourvu d'au moins un logement (1131, 1132) de réception d'une patte (1111, 1112) de montage de la griffe (111). La lance comprend des moyens (115, 116) d'immobilisation de la ou chaque patte (1111, 1112) de la griffe (111) dans le logement correspondant (1131, 1132). Pour fabriquer la lance (11), on immobilise le renfort (113) dans la fente (1122) puis on insère la ou les pattes (1111, 1112) dans les logements (1131, 1132). Enfin, on immobilise les pattes par un effort de pincement exercé grâce à des moyens adaptés (115, 116).

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## Citation (search report)

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- [A] WO 0026454 A1 20000511 - PICANOL NV [BE], et al
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## Cited by

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