

Title (en)

Weft insertion method and apparatus for rapier loom

Title (de)

Verfahren und Vorrichtung zum Schussfadeneintrag für Greiferwebmaschinen

Title (fr)

Méthode et dispositif d'insertion de trame pour métier à griffes

Publication

EP 0690160 A1 19960103 (EN)

Application

EP 95108182 A 19950529

Priority

JP 12390394 A 19940606

Abstract (en)

A weft inserting apparatus for a rapier loom for weaving a fabric by inserting a weft through a shed formed by warps by reciprocally moving feeding and receiving rapier heads through the shed. The feeding and receiving rapier heads (1; 2) are each constituted by a combination of a stationary gripper member (7; 11) and a movable gripper member (8; 12) made of a magnetic material. Electromagnets (18; 19) are disposed at both ends of a sley (17), respectively, while electromagnets (20; 21) are disposed at a mid portion of the sley. The movable gripper member (8) of the feeding rapier head (1) positioned in opposition to the electromagnets (19; 21) is displaced from a weft grip position to a weft release position by controlling the magnetic action of the electromagnets (18; 20), while the movable gripper member (12) of the receiving rapier head (2) disposed oppositely to the electromagnets (19; 21) is displaced from the weft grip position to the weft release position by controlling the magnetic action of the electromagnets (19; 21). The weft insertion can be carried out with high reliability while positively protecting the weft against injury. <MATH>

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CPC (source: EP KR)

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Citation (applicant)

JP H05195373 A 19930803 - SULZER AG

Citation (search report)

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- [Y] US 3963229 A 19760615 - VAN DUYNHOVEN ADRIANUS HENRICU
- [Y] EP 0299553 A1 19890118 - PICANOL NV [BE]
- [A] FR 2372256 A1 19780623 - PIQUEMAL JEAN [FR]

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