

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 B1 20000816 (EN)

Application

EP 95108182 A 19950529

Priority

JP 12390394 A 19940606

Abstract (en)

[origin: EP0690160A1] 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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Cited by

EP2388361A1; EP1016745A3; US6305434B1; US7124783B2; CN103003479A; EP0990723A1; FR2783842A1; EP1918437A1; US7584769B2; WO9960193A1; WO2011144368A3; WO2009026732A1; WO2011144368A2; WO2008052369A1; WO2004035891A3

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EP 95108182 A 19950529; CN 95106585 A 19950605; CN 98106679 A 19980420; DE 69518367 T 19950529; EP 98105886 A 19950529; JP 12390394 A 19940606; KR 19950014876 A 19950602; TW 84105276 A 19950525