

Title (en)  
Weft inserting apparatus for rapier loom

Title (de)  
Schusseintragsvorrichtung für Greiferwebmaschinen

Title (fr)  
Dispositif d'insertion de la trame pour métiers à tisser à griffes

Publication  
**EP 0905296 A1 19990331 (EN)**

Application  
**EP 98118019 A 19980923**

Priority  
JP 26624897 A 19970930

Abstract (en)  
A weft inserting apparatus for a rapier loom. By suppressing the tendency of a rapier band to fly radially outwardly from the circumferential surface of a rapier wheel, a large inertial force of a rapier head acting on given driving force receiving holes formed in the rapier band is dispersed to extend the service life of the rapier band. A first position regulating member (17) is disposed in a region extending from a first entrance/exit boundary (K1) to a non- wrapping range (H). A second position regulating member (18) is disposed in a region close to a second entrance/exit boundary (K2). A third position regulating member (19) is disposed in a region extending from the first entrance/exit boundary (K1) into a wrapping range (E). The first position regulating member (17) and the second position regulating member (18) are provided with linear guide surfaces (171, 181), respectively, which are brought into contact with the rapier band (12) in the non-wrapping range (H). The third position regulating member (19) is provided with a curvilinear guide surface (191) adapted to contact with the rapier band (12) in the wrapping range (E). The curvilinear guide surface (191) extends continuously and smoothly to the linear guide surface (171). <IMAGE>

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