

Title (en)

Weft inserting apparatus for rapier loom and three-dimensional crank mechanism therefor

Title (de)

Schusseintragsvorrichtung für Greiferwebmaschinen und dreidimensionaler Kurbelmechanismus dafür

Title (fr)

Dispositif d'insertion de la trame pour métiers à tisser à griffes et mécanisme à manivelle tridimensionnel pour ce dispositif

Publication

**EP 0884411 B1 20060823 (EN)**

Application

**EP 98110420 A 19980608**

Priority

JP 15399497 A 19970611

Abstract (en)

[origin: EP0884411A1] Three-dimensional crank mechanisms for a weft inserting apparatus of a rapier loom exhibit an enhanced rotational balance for ensuring improved stability of weft insertion of the weft inserting apparatus. Drive shafts 23, 24 are supported on supporting walls 35, 36 by means of bearing members 33, 34, respectively. Driven gears 25, 26 are fixedly mounted on the drive shafts 23, 24 at outer sides of the supporting walls 35, 36, respectively. Oblique shaft crank portions 37, 38 are integrally formed on side surfaces of the driven gears 25, 26, respectively, which serve to transmit driving forces through driving gears 27, 28, respectively. Balancing weights 252, 262 are formed integrally on the side surfaces of the driven gears 25, 26 in diametrical opposition to the oblique shaft crank portions 37, 38 with the drive shafts 23, 24 being interposed therebetween, respectively. <IMAGE>

IPC 8 full level

**D03D 47/27** (2006.01)

CPC (source: EP)

**D03D 47/272** (2013.01); **D03D 47/275** (2013.01)

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