

Title (en)
WEFT DETECTING DEVICE FOR AIR-JET LOOM

Title (de)
SCHUSSFADENERFASSUNGSVORRICHTUNG FÜR EINE LUFTDÜSENWEBMASCHINE

Title (fr)
DISPOSITIF DE DÉTECTION DE TRAME POUR MÉTIER À TISSER À JET D'AIR

Publication
EP 3404132 B1 20191016 (EN)

Application
EP 18171780 A 20180511

Priority
JP 2017096388 A 20170515

Abstract (en)
[origin: EP3404132A1] A weft detecting device for an air-jet loom includes a main nozzle, an auxiliary nozzle, a reed including a plurality of dents, a reflective photoelectric sensor, and a determination unit. The dents each include a guide recess, and the guide recesses define a reed passage. The main nozzle and the auxiliary nozzle eject air to insert a weft through the reed passage. The reflective photoelectric sensor is located at a position that allows for detection of the weft . The reflective photoelectric sensor includes a light projector and a light receiver. The light projector emits light. The light receiver receives reflected light that has been reflected by the weft. The determination unit is configured to determine a position of the weft relative to the reed passage in a depthwise direction based on a light amount level of the reflected light.

IPC 8 full level
D03D 47/30 (2006.01); **D03D 51/34** (2006.01)

CPC (source: CN EP)
D03D 47/3073 (2013.01 - CN EP); **D03D 51/34** (2013.01 - EP)

Cited by
CN114606627A; CN111411440A; BE1026923B1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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