

Title (en)

Monitoring device for looms with flexible pressure hoses

Title (de)

Überwachungseinrichtung für Webmaschinen mit flexiblen Druckschläuchen

Title (fr)

Dispositif de surveillance pour métiers à tisser avec des tuyaux sous pression flexibles

Publication

EP 1072706 A3 20030827 (DE)

Application

EP 00112138 A 20000606

Priority

DE 19936071 A 19990730

Abstract (en)

[origin: DE19936071C1] The monitor system for a loom, which uses flexible pressure hoses, has conductors (8a,8a') carrying an electrical current fitted to the air pressure hoses (8). In the event of a fault in the pressure hose (8), the electrical current flow is interrupted, and the electronic loom control generates a loom stop signal. The conductor (8a,8a') for each pressure hose (1) is within the weft insertion system at connections of the weft insertion system, at a conductive loop current supply. The conductors (8a,8a') at the end of each pressure hose (8) are linked to an open or closed (14) conductive loop. The first conductor (8a) gives the current flow and the second conductor (8a') is connected to the signal input at the loom control. The hose connection at the weft insertion system gives the current flow link between the conductors (8a,8a'). The hose connection of the magnet valve gives the current link between the conductors, and one conductor is in series with the magnet valve control conductors. The closed electrical loop (14) forms an oscillating circuit together with an oscillating coil (15). The oscillation frequency is registered and measured, and a frequency change is shown in the loom control as a signal.

IPC 1-7

D03D 47/30

IPC 8 full level

D03D 47/28 (2006.01); **D03D 51/44** (2006.01)

CPC (source: EP US)

D03D 47/28 (2013.01 - EP US); **D03D 51/44** (2013.01 - EP US)

Citation (search report)

- [Y] DE 4136190 A1 19930506
- [Y] EP 0185650 A1 19860625 - VOEST ALPINE AG [AT]
- [A] WO 9531665 A1 19951123 - BTR PLC [GB], et al
- [A] DE 19723001 A1 19981203 - JESCHKE ALEXANDER [DE], et al

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19936071 C1 20000907; EP 1072706 A2 20010131; EP 1072706 A3 20030827; JP 2001064851 A 20010313; US 6186191 B1 20010213

DOCDB simple family (application)

DE 19936071 A 19990730; EP 00112138 A 20000606; JP 2000226651 A 20000727; US 62529700 A 20000725