

Title (en)
PICKING DEVICE OF WEAVING MACHINE

Title (de)
SCHLAGVORRICHTUNG EINER WEBMASCHINE

Title (fr)
DISPOSITIF DE RAMASSAGE D'UN METIER A TISSER

Publication
EP 1536048 A4 20080430 (EN)

Application
EP 03791191 A 20030804

Priority
• JP 0309869 W 20030804
• JP 2002251153 A 20020829

Abstract (en)
[origin: EP1536048A1] The present invention aims at further reduction of the consumption of a compressed fluid in a picking device (10) of a loom. The picking device (10) of the loom comprises at least one of sub-nozzle units (34) in which a sub-nozzle (22) and an electromagnetic switching valve (38) are connected in one-to-one relationship through a pipe (40) so that a compressed air can flow, and is characterized by defining the effective sectional area of a fluid channel (K1) from a fluid outlet (48) of a fluid supply source (36) to the input end (22b) of the sub-nozzle (22) of the pipe (40), the effective sectional area of a fluid channel (K2) from an input port (52) of the electromagnetic switching valve (38) to an output port (56) of the electromagnetic switching valve (38), the content volume of the fluid channel (K3) from the valve body side end of the valve seat opening (72) of the electromagnetic switching valve (38) to the input end (22b) of the sub-nozzle (22), or the content volume of the fluid channel (K4) from the valve body side end of the valve seat opening (72) of the electromagnetic switching valve (38) to the output port (56) of the electromagnetic switching valve (38) in a specific range. <IMAGE>

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Citation (search report)
• [Y] JP H06306737 A 19941101 - TOYODA AUTOMATIC LOOM WORKS, et al
• [Y] JP H05222648 A 19930831 - ASAHI CHEMICAL IND
• [Y] JP 2000096390 A 20000404 - TOYODA AUTOMATIC LOOM WORKS
• [Y] JP H1094769 A 19980414 - SMC CORP
• [A] US 5417250 A 19950523 - MARKEY HUGO [BE]
• [A] US 4366845 A 19830104 - SIMSON DIONIZY [CH]
• See references of WO 2004020716A1

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