

Title (en)
Thread selecting device for weaving machine

Title (de)
Fadenwahlvorrichtung für eine Webmaschine

Title (fr)
Dispositif de sélection de fil pour un métier à tisser

Publication
EP 0697477 B1 20000524 (EN)

Application
EP 95101303 A 19950131

Priority
JP 19429794 A 19940818

Abstract (en)
[origin: EP0697477A2] A thread selecting device used in conjunction with a weaving machine comprises a needle for selecting a vertical thread used by the machine according to its displacement, a mechanism for displacing this needle in synchronism with the operation of the weaving machine, an electromagnetic actuator for maintaining the needle in a predetermined position, and a mechanism for supplying energizing current to the electromagnetic actuator. The supplying mechanism supplies energizing current in conjunction with the machine operation according to a preset specification. The device further comprises a mechanism for detecting when the operation of the machine has been interrupted, and a mechanism for causing oscillation of the energizing current. Hence, supply of current to the electromagnetic actuator holding a selected needle is not stopped even when the machine operation is interrupted, and by maintaining the needle in the selected position, the operation of the device is not delayed when the weaving machine resumes operation. Further, by causing the energizing current to oscillate at the same time, overheating of the electromagnetic actuator due to continued energizing is prevented. <MATH>

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CPC (source: EP)
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Cited by
EP0781878A1; EP1302575A3; GB2320259A; US5860454A; US5813441A; US5819813A; EP0801161A1; BE1010133A3; US6863091B2; US6834681B2

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