

Title (en)

Method and device for starting a weaving machine

Title (de)

Verfahren und Vorrichtung zum Starten einer Webmaschine

Title (fr)

Procédé et dispositif pour démarrer une machine à tisser

Publication

**EP 2703532 A1 20140305 (EN)**

Application

**EP 13181011 A 20130820**

Priority

CZ 2012593 A 20120831

Abstract (en)

The invention relates to a method for the starting of the weaving machine, in which the beating-up mechanism of the weaving reed proceeds from standstill to operating speed, whereby before dead centre, in the position of the weft insertion, the kinetic energy of the moving members of the beating-up mechanism is converted to the potential energy of a flexibly deforming means and after dead centre, in the position of the weft insertion, the potential energy of the means that is flexibly deformed is converted to the kinetic energy of the moving members of the beating-up mechanism of the weaving reed. From standstill in the first phase, the beating-up mechanism of the weaving reed is driven at a lower speed and by a larger force, by which a flexibly deformable means is flexibly deformed before dead centre in the position of the weft insertion, and subsequently, in the second phase, the beating-up mechanism of the weaving reed is driven at a higher speed, being close to operating speed, and by a lesser force, whereby the flexibly deformable means returns to its original shape. The invention also relates to a device for the starting of a weaving machine, whose beating-up mechanism of the weaving reed (3) comprises a batten (1) mounted on means which are flexibly deformable in a direction of the working movement of the batten (1) between its beat-up position and the position of the weft insertion, whereby the batten (1) is coupled by means of a connecting rod (4), a crank (51) and a crank shaft (52) with the electric drive (6). The electric drive (6) comprises a working drive electric motor (61) and a starting drive electric motor (62), wherein the output shafts of both electric motors (61, 62) are coupled with a switchable drive clutch (56), whose outlet portion is interconnectable with the output shaft of the starting drive electric motor (62) and/or the output shaft of the working drive electric motor (61).

IPC 8 full level

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CPC (source: CZ EP)

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