Title (en)

Winding apparatus

Title (de)

Aufwickelvorrichtung

Title (fr)

Dispostif de bobinage

Publication

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Application

EP 01103529 A 20010216

Priority

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Abstract (en)

The clamping gap (32) is formed by a clamping body (29) capable of movement. This is connected to the clamping disc, which on rotation, causes the body to move out through centrifugal force, into a clamping position, so holding the thread. An Independent claim is included for the corresponding method of thread winding. Preferred features: In action, the clamp rests against a surface (33) of the clamping disc, body and surface together forming the clamping gap. Surface and clamping body have congruent shape, centering the body. A spring acts against the body, opposing but overcome by the centrifugal force. The clamp is guided in a path (34) of the clamping disc, through which it moves radially outward, on rotation. In one design, the body is a ball, the guide path formed by a cage or retention structure inside the clamping disc, permitting free motion between inner and outer positions. A further variant is described, is based on similar principles. An interception projection and slot (27, 28) are formed on the end of the clamping disc facing the spool. The clamping gap is at the end of the slot, which partly passes through the resting surface, such that a thread sliding along the slot, is led in through the gap at its end. Slot and projection are built into a recess (26) in the edge (25) of the clamping disc. Thread guide, clamping disc and a suction unit intercept the thread in an arrangement causing the thread to run over the end face of the clamping disc, in its direction of rotation. A further edge guide (24) surrounding the thread, is fitted to the clamping disc. This covers the ends of the casing and guides thread winding onto the spool.

Abstract (de)

Die Erfindung betrifft eine Aufwickelvorrichtung zum Aufwickeln eines kontinuierlich zulaufenden Fadens, bei welcher eine angetriebene Hülse zwischen zwei drehbar gelagerten Spanntellern eines Spulenhalters gehalten wird. Zumindest einer der Spannteller weist eine Fangeinrichtung und einen Klemmspalt zum Klemmen des Fadens auf, um nach einem Spulenwechsel das Anlegen des Fadens an eine neue Hülse zu ermöglichen. Erfindungsgemäß wird dabei der Klemmspalt durch einen beweglichen Klemmkörper gebildet, der mit dem Spannteller verbunden ist und bei Drehung des Spanntellers durch eine Fliehkraft in einer Klemmposition zum Klemmen des Fadens gehalten ist. <IMAGE> <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

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