

## Title (en)

Bobbin creel for textile machines and control valve for adjusting such a bobbin creel

## Title (de)

Spulengatter für Textilmaschinen sowie Betätigungsventil zum Verstellen eines solchen Spulengatters

## Title (fr)

Râtelier porte-bobines pour machines textiles et soupape de commande pour le réglage d'un tel râtelier

## Publication

**EP 1357209 A3 20050810 (DE)**

## Application

**EP 03008256 A 20030409**

## Priority

DE 10218590 A 20020426

## Abstract (en)

[origin: EP1357209A2] A textile machine bobbin creel is supported on one side by an articulated lifting arm with a fixed rectangular box-frame having four pivot points for attachments. Movement of the creel from the upper operating position to the lower loading position is effected esp. by pneumatic cylinders (8) with compressed air feed pipes and valves either side of a gas spring. The box-frame hinged unit is supported on both sides by a gas spring (9) which is placed under compression when the creel swivels to the loading position. The gas spring is essentially parallel to and between two pneumatic cylinders. Also claimed is a pneumatic valve which operates the pneumatic cylinder. The valve has two chambers separated by a piston and is linked to a source of compressed air via a 3/2-way valve and further valve system including back-flow prevention valves.

## IPC 1-7

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## IPC 8 full level

**B65H 49/16** (2006.01); **D01H 1/18** (2006.01); **F15B 11/00** (2006.01)

## CPC (source: EP US)

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## Citation (search report)

- [DY] FR 2794136 A1 20001201 - ICBT YARN [FR]
- [Y] AT 237487 B 19641210 - SDRUZENI PODNIKU TEXTILNIHO ST [CS]
- [Y] DE 3604658 A1 19870820 - HACOBA TEXTILMASCHINEN [DE]
- [A] US 4163357 A 19790807 - GRIEVE ALOYS [DE], et al
- [A] GB 1254378 A 19711124 - BARMAG BARMER MASCHF [DE]
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- [A] EP 0260206 A1 19880316 - ICBT [FR]

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EP3699439A1; DE102019104283A1; US11781571B2

## Designated contracting state (EPC)

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## DOCDB simple family (publication)

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## DOCDB simple family (application)

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