

Title (en)
Compression spring grinding machine

Title (de)
Federendenschleifmaschine

Title (fr)
Machine à meuler des ressorts de compression

Publication
EP 0722810 A1 19960724 (EN)

Application
EP 95830546 A 19951229

Priority
IT MI950082 A 19950119

Abstract (en)
The present invention relates to a compression spring grinding machine (1), of high use flexibility. The machine comprises: a supporting table (2) which can rotate about an axis (2a) thereof; first driving means (4) for driving the supporting table (2) with either a continuous or intermittent motion about the axis (2a) thereof; at least two mandrels (5,6) having axes (5a,6a) parallel to the axis (2a) of the supporting table (2), rotatably associated, about the respective axes (5a,6a), with the supporting table (2) and projecting from a loading face thereof. The apparatus further comprises a main loading disc (7), which can be coaxially mounted on the loading face of the supporting table (2), and at least two minor loading discs (13,14), which can be mounted on the loading face of the supporting table (2), coaxially with the mandrels (5,6), alternately to the major or main loading disc (7). The machine further comprises a grinding station, including a pair of grinding wheels (18,19), opposite to the supporting table plane and operating on pieces to be ground, supported by loading discs (13,14) at the grinding station. Second driving means are moreover provided for driving the minor loading discs (13,14) about the axis of the related mandrel (5a,6a), at least at the grinding station. <IMAGE>

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Citation (search report)
• [Y] DE 1502470 A1 19691023 - KUNZ BECK EMIL
• [Y] FR 1599254 A 19700715
• [A] FR 1353975 A 19640228
• [A] GB 1207757 A 19701007 - KARL HACK KOMMANDITGESELLSCHAFT [DE]

Cited by
DE102012203617A1; DE102013211201A1; WO2013131786A1; WO2013113628A1; EP1588799A1; EP1520658A1; JP2018034253A; JP2018051644A; CN104364050A; CN105722640A; CN102490096A; EP3597362A1; EP4234162A1; DE102012201465A1; US9283654B2

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