

Title (en)

Method and apparatus for making O-rings.

Title (de)

Verfahren und Vorrichtung zum Herstellen von O-Ringen.

Title (fr)

Procédé et dispositif pour la fabrication de joints toriques.

Publication

EP 0000618 A1 19790207 (EN)

Application

EP 78300080 A 19780626

Priority

US 80988877 A 19770624

Abstract (en)

[origin: US4207135A] A kit for making O-rings from cord stock material essentially includes a holding fixture for securing the material, a container of bonding liquid and a heating mold. The holding fixture allows the cord material to be cut diagonally in such a fashion that the magnitude of the angle is smaller for cord materials having a smaller diameter. Therefore, there is a larger bonding surface for smaller diameter materials. The O-ring heating mold includes two flat separable heat conductive blocks having a common flat interface. Apertures are located across the interface having cross-sectional diameters that are slightly less than the tube stock cross-sectional diameters. Since the central axis of each aperture is not located directly at the interface one portion will include more than 180 DEG of arc whereas the other portion will correspondingly include less than 180 DEG . With this structure it is possible to mate the two O-ring pieces in the heating mold where they will stay relatively immobile until locked in position by a locking screw. A heating control mechanism is associated with a heating element in the heat mold. The kit can be employed to create custom sized O-rings in a relatively short period of time.

IPC 1-7

B29C 24/00; **B29C 27/10**; **B29H 7/00**; **F16J 15/32**

IPC 8 full level

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CPC (source: EP US)

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C-Set (source: EP US)

1. **B29C 66/71** + **B29K 2083/00**
2. **B29C 66/71** + **B29K 2021/00**
3. **B29C 66/71** + **B29K 2011/00**

Citation (search report)

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EP 0000618 A1 19790207; **EP 0000618 B1 19821027**; CA 1108363 A 19810908; DE 2862068 D1 19821202; IT 1105655 B 19851104; IT 7883409 A0 19780623; US 4207135 A 19800610

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