

Title (en)

Modular apparatus for press-forming or calibrating of parts with helical contours

Title (de)

Modulare Vorrichtung zum Pressformen oder Kalibrieren von Werkstücken mit schraubenlinienförmigen Konturen

Title (fr)

Dispositif modulaire pour le pressage ou la calibrage de pieces à contours helicoidal

Publication

EP 0528761 B1 19961227 (DE)

Application

EP 92810600 A 19920806

Priority

CH 241891 A 19910817

Abstract (en)

[origin: EP0528761A1] The invention relates to an apparatus of modular construction for press-forming or calibrating of parts with helical contours and a hub, on one or both sides, which can likewise have helical contours or straight teeth, slots, keys etc. The rotary motion of the helically contoured rams is here produced indirectly by link devices which are inexpensive to manufacture and simple to install and replace. The link device consists of a link core having helical contours and of a link die with complementary contours. During the pressing operation, the link core and the link die intermesh and, via a gear wheel rigidly connected to the link die, drive a central gear wheel to which the ram is replaceably attached. Exact synchronisation of the helical motion of the ram with the inner contours of the pressing mould is achieved by virtue of the fact that the guide plate is fixed to the jacket plate. <IMAGE>

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CPC (source: EP US)

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Cited by

CN100464903C; CN103447441A; DE4428842C1; CN1074699C; EP0955115A1; US6044555A; EP0774316A1; US6004120A; US5843484A; AT406240B; DE19724879B4; US6440357B1; US8887394B2; US7494330B2; US9676021B2; WO0112367A3; WO2005039805A3; WO0228576A3; WO9604087A1; WO2014013290A3; KR100290242B1

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