

Title (en)
Improvements in or relating to labelling apparatus.

Title (de)
Etikettiermaschine.

Title (fr)
Etiqueteute.

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Application
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Abstract (en)
A reciprocating labelling device is known but it is slow and expensive. High speed labelling devices can only handle paper labels and cannot be used with plastic labels. The invention provides a high speed compact labelling device particularly adapted for use with plastic labels comprising a rotary label applying means (120) having a plurality of bellows (124) arranged at intervals therearound. The label applying means is adapted to rotate between a label receiving position and a label applying position. A vacuum is applied to the bellows to retract them except at the label applying position and labels are held on the retracted bellows by suction. At the label applying position an overpressure is applied to the bellows causing the bellows to expand into contact with an object to be labelled. Objects of irregular size can thus be labelled. The apparatus also includes a detachable cassette (12) for a supply (16) of labels (22), the cassette including means for transporting labels (30) to the label applying means and for separating labels (32) from the label carrier (20). The cassette can be loaded and threaded up when detached from the rest of the apparatus and when loaded can replace an exhausted cassette on the apparatus without stopping the apparatus.

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Cited by
WO9946170A1; US6230779B1; FR2619357A1; EP1396434A3; US7363954B2; EP2154075A1; JP2002540021A; AU768284B2; US5788284A; EP0593382A1; FR2696714A1; US5387302A; EP0266757A1; CN109502122A; EP0728669A1; FR2730698A1; US5738755A; AU708884B2; FR2817838A1; EP2349851A4; EP4206081A1; US6047755A; EP0879764A1; US5829351A; EP1044884A3; US8110064B2; US8122930B2; US10696440B2; US8114240B2; WO03024807A1; WO03026972A3; WO0247984A1; WO2006029103A3; US6729375B2; US7178574B2; WO2007088569A1; WO9639331A1; US6427746B1; US6257294B1; US8157946B2; FR2855149A1; WO03078256A1; US6792992B2; US6408916B1; JP2011020689A; WO0058157A1

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