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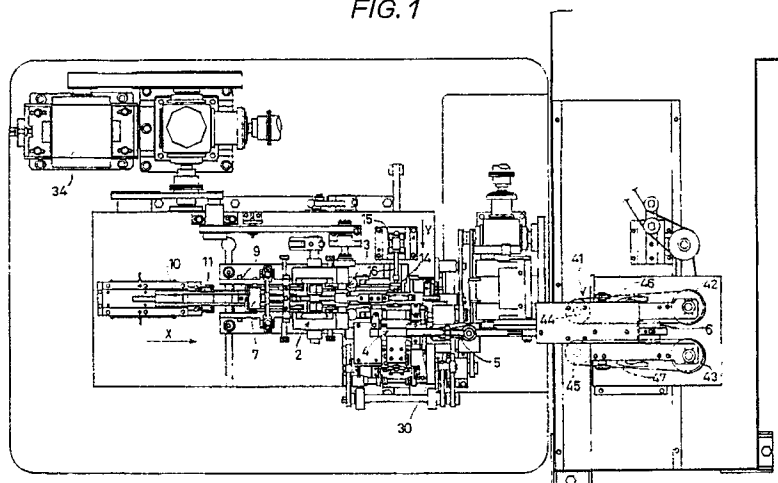
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CH-8962 Bergdietikon(CH)(54) **Production apparatus for producing external can of dry element battery.**

(57) A production apparatus produces an external can of a dry element battery. The production apparatus comprises a notch forming mechanism (2) supplied with a plate shaped base material (7) which becomes the external can of the dry element battery for forming notches (7a, 7b, 7c) at predetermined positions of the base material, a forming mechanism (4) for forming the base material which is formed with the notches into a cylindrical shape with a joint portion located at a lower side, a turning mechanism (5) for turning the base material (7) which is formed

to the cylindrical shape so that the joint portion faces up, a laser welding unit (6) for irradiating a laser beam from above the turned base material so as to join the joint portion by a laser welding and form the external can of the dry element battery, and a feeding mechanism (10, 15, 25, 40) for successively feeding the base material to the notch forming mechanism, the forming mechanism the turning mechanism and the laser welding unit.

FIG. 1

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EUROPEAN SEARCH REPORT

Application Number

EP 89 12 1861

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 273 135 (ELPATRONIC) * Abstract; figure 1; column 1, line 45 - column 2, line 53 * - - -	1-4	B 21 D 51/36 B 21 D 51/26
Y	EP-A-0 260 701 (FUJI) * Column 3, lines 4-40; column 9, lines 39-58; claim 1; figures 9,14A-14E * - - -	1-4	
A	GB-A-2 035 856 (SAURIN) * Abstract; figures 1,5b; page 2, lines 61-73; page 3, lines 54-57; claims 4-6 * - - -	1-4	
A	EP-A-0 208 564 (CARNAUD) * Abstract; figures 1,4; claims 1,2,13-15 * - - -	1-4	
A	EP-A-0 195 507 (TOYO SEIKAN KAISHA) * Abstract; figures 1,3; page 4, line 26 - page 5, line 27; claims 3-4 * - - - - -	1-4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 21 D B 23 K H 01 M
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 05 February 91	Examiner GERARD O.J.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention</div> <div>E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document</div>			