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(54) Lead frame for electroacoustic transducer and electroacoustic transducer

(57) A lead frame (1) for an electroacoustic transducer, forming leads of the electroacoustic transducer, comprising a metal sheet (2) made of a metal having elongation 20% or higher, a nickel undercoat deposit (3) of a thickness in the range from 0.01 to 2.0 μm formed on the metal sheet (2) by plating in a nickel plating bath containing no brightening agent, and a solder deposit (4) of a thickness in the range from 1.0 to 10 μm formed on the surface of the nickel undercoat deposit (3) by plating in a tin-lead plating bath containing no brightening agent. With the lead frame (1) formed by plating the metal sheet (2) as stated above, micro-cracking occurring in the bent corners of the metal sheet (2) and the solder deposit (4), when the outer leads of the lead frame (1) are bent at an angle of 90°, can be prevented.

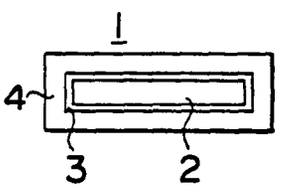

FIG. 3

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EUROPEAN SEARCH REPORT

Application Number
EP 96 30 6415

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.6)
A	EP-A-0 650 308 (STAR MFG CO) 26 April 1995 * column 5, line 34 - line 54; figure 3 *	1-7	H04R1/06
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 398 (C-538), 21 October 1988 & JP-A-63 143246 (KOBE STEEL LTD), 15 June 1988, * abstract *	1-6	
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 350 (E-800), 7 August 1989 & JP-A-01 109756 (KOBE STEEL LTD), 26 April 1989, * abstract *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 019 (E-292), 25 January 1985 & JP-A-59 168660 (HITACHI DENSEN KK), 22 September 1984, * abstract *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 008, no. 095 (E-242), 2 May 1984 & JP-A-59 014658 (HITACHI DENSEN KK), 25 January 1984, * abstract *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04R H01L H01R C25D B29C
A	ELECTRONIC PACKAGING AND PACKAGING, vol. 34, no. 2, February 1994, NEWTON, MASS., US , pages 114-116, XP000430271 R.SCHETTY: "Outer Lead Plating Process Protects Solderability" Page 114, Right-hand column, 'Plating process requirements'	1	

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
MUNICH	13 February 1997	Nieuwenhuis, P

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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