(11) **EP 1 253 393 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 03.03.2004 Bulletin 2004/10

(51) Int Cl.7: **F28F 3/02**, H01L 23/367

(43) Date of publication A2: 30.10.2002 Bulletin 2002/44

(21) Application number: 02001828.9

(22) Date of filing: 25.01.2002

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 23.04.2001 CN 01220105

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(54) Flow channel type heat dissipating fin set

(57) A flow channel type heat dissipating fin set (10) is formed by a plurality of metal pieces (11). Each metal piece (11) comprises a body (12); and a connecting piece (15) installed on the body (12) having one or more connecting pieces (16) punched from the body (12); the connecting piece (15) being protruded from one side of the body (12); a via hole (19) being formed on the body

(12); and buckles (17) and buckling holes (18) being formed on the body (12). The metal pieces (11) are combined by buckling the buckles (17) and buckling holes (18) so that the metal pieces (11) are continuously buckled and stacked as a heat dissipating fin set (10); and via holes (19) on the bodies of the metal pieces are formed as longitudinal flow channels.

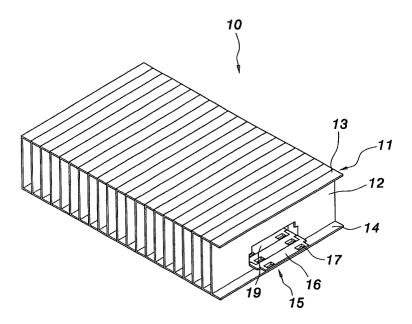


FIG. 2

EP 1 253 393 A3



EUROPEAN SEARCH REPORT

Application Number EP 02 00 1828

Y	GB 1 592 069 A (PASILAC AS) 1 July 1981 (1981-07-01) * page 2, line 90 - page 3, l figures 3-7 *		1,2	E20E3/02U01122/2			
		ine /;	F28F3/02H01L23/3				
	US 5 529 120 A (HOWARD PAUL A 25 June 1996 (1996-06-25) * column 7, line 8 - line 33; * * column 13, line 39 - line 5 17,18 *	figures 1-3	1,2				
	DE 36 16 746 A (MOLL HERMANN 19 November 1987 (1987-11-19) * column 3, line 56 - line 67 9-11 *)	1,2				
ĺ	US 5 558 155 A (ITO EIJI) 24 September 1996 (1996-09-24 * abstract; figures *	1)	1-3				
	US 6 205 662 B1 (CHEN YUN-CHI 27 March 2001 (2001-03-27) * abstract; figures *	NG)	1-3	TECHNICAL FIELDS SEARCHED (Int.CI.7) H01L F28F			
	The present search report has been drawn up to	or all claims					
		of completion of the search		Examiner			
		January 2004		tz, F			
X : partion Y : partion document A : techr	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background -written disclosure	T: theory or principle underlying the E: earlier patent document, but publi after the filing date D: document cited in the application L: document cited for other reasons		ished on, or			

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EP 02 00 1828

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-01-2004

Patent document cited in search report			Publication date		Patent family member(s)	Publication date
GB	1592069	A	01-07-1981	DK DE FR	417676 A 2741712 A1 2365094 A1	17-03-1978 30-03-1978 14-04-1978
US	5529120	Α	25-06-1996	NONE		
DE	3616746	Α	19-11-1987	DE	3616746 A1	19-11-1987
US	5558155	Α	24-09-1996	JP CN DE GB HK US	7050494 A 1105120 A ,B 4427854 A1 2282269 A ,B 1001605 A1 5761811 A	21-02-1995 12-07-1995 09-02-1995 29-03-1995 26-06-1998 09-06-1998
US	6205662	B1	27-03-2001	US	6267178 B1	31-07-2001

FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82