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(54) **Plattenwärmetauscher**

(57) Die vorliegende Erfindung betrifft einen Plattenwärmetauscher bei dem die Dichtungen (4) jeweils an einer der Platten (1, 1'), die sie gegeneinander abdichten, mechanisch dadurch befestigt sind, daß einstückig mit den Dichtungen (4) ausgebildete und in Abständen auf deren Längserstreckung angeordnete elastische Nippel (25) in zugeordnete Löcher (26) der Platten (1, 1') eingepreßt sind. Aufgabe der Erfindung ist es, bei einem Plattenwärmetauscher dieser Art eine einfache

Lösung für die mechanische Befestigung der Dichtungen an den Platten zur Verfügung zu stellen, die dennoch einen sicheren Halt und ein problemloses Entfernen der Dichtungen ermöglicht. Gelöst wird diese Aufgabe dadurch, daß die Nippel (25) einen Querschnitt aufweisen, der kleiner als der Durchtrittsquerschnitt der Löcher (26) ist, diesen aber an mehreren Stellen am Umfang überragt oder dadurch, daß der Rand der Löcher (26) als ein in Einsteckrichtung der Nippel (25) weisender Durchzug (27) ausgebildet ist.

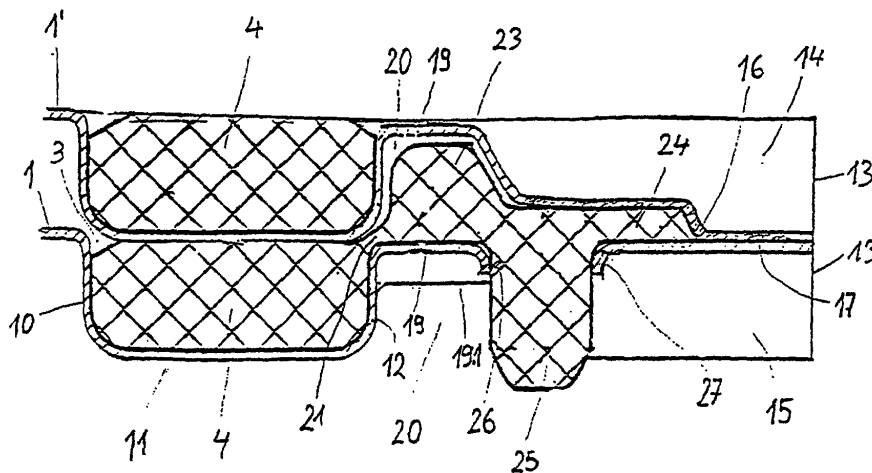


FIG. 3



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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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X	GB 2 141 814 A (APV INT LTD) 3 January 1985 (1985-01-03) * figure 2 *	6,10	
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A	US 4 905 758 A (MATHUR ACHINT P ET AL) 6 March 1990 (1990-03-06) * the whole document *	1-10	
A	EP 0 762 071 A (HISAKA WORKS LTD) 12 March 1997 (1997-03-12) * figures *	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F28F
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		16 December 2003	Mellado Ramirez, J
CATEGORY OF CITED DOCUMENTS			
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 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	

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5

Plattenwärmetauscher wobei die Nippel einen bestimmten Querschnitt aufweisen.

2. Claims: 6-10

Plattenwärmetauscher wobei der Rand der Löcher als ein weisender Durchzug ausgebildet ist

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 01 25 0256

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
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16-12-2003

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