

12

EUROPEAN PATENT APPLICATION

21 Application number: 84300718.8

51 Int. Cl.⁴: **H 01 R 4/18**
H 01 R 13/193

22 Date of filing: 06.02.84

30 Priority: 10.02.83 JP 19824/83

43 Date of publication of application:
31.10.84 Bulletin 84/44

88 Date of deferred publication of search report: 13.08.86

84 Designated Contracting States:
DE FR GB NL

71 Applicant: **HITACHI, LTD.**
6, Kanda Surugadai 4-chome Chiyoda-ku
Tokyo 100(JP)

72 Inventor: **Ito, Shinichi**
1343-2, Aihara-cho
Machida-shi Tokyo(JP)

72 Inventor: **Nakanishi, Keiichirou**
3-1-3, Higashi-Koigakubo
Kokubunji-shi Tokyo(JP)

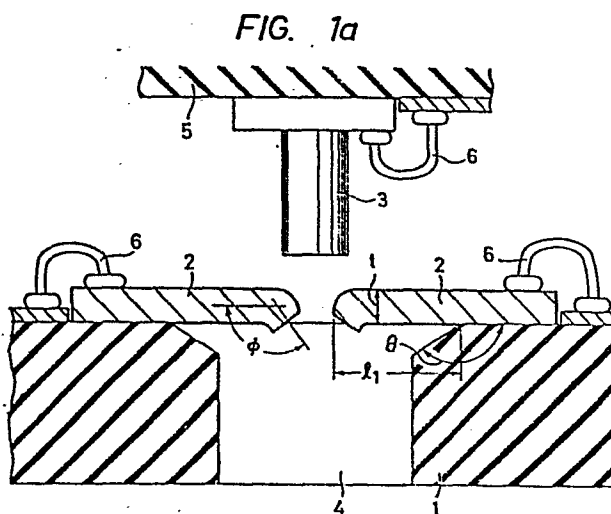
72 Inventor: **Masaki, Akira**
1-16-13-508, Meguro-Honcho Meguro-ku
Tokyo(JP)

72 Inventor: **Mukai, Kiichiro**
2-24-14, Akatsuki-cho
Hachioji-shi Tokyo(JP)

74 Representative: **Calderbank, Thomas Roger et al,**
MEWBURN ELLIS & CO. 2/3 Cursitor Street
London EC4A 1BQ(GB)

54 Connector using a shape memory alloy member.

57 A connector has thin sheets (2) of shape memory alloy on a surface of a substrate (1), positioned such that the sheets (2) project over a hole in the substrate. A pin (3) is inserted into the hole with the temperature being such that the sheets (2) are easily deformed. A suitable change of temperature causes the sheets (2) to attempt to return to their original shape, thereby establishing a good electrical connection between the sheets (2) and the pin (3). Another change of temperature causes the sheets (2) to stop trying to return to their original shape, making it easy to remove the pin (3). This arrangement makes possible a reliable connector which may easily be made small.





European Patent
Office

EUROPEAN SEARCH REPORT

0123376

Application number

EP 84 30 0718

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. ³)
A	FR-A-2 144 348 (RAYCHEM) * Page 6, line 18 - page 9, line 26; figures * & JP - B - 16 056 (1973) (Cat. D) -----	1	H 01 R 4/18 H 01 R 13/193
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			H 01 R
The present search report has been drawn up for all claims			

Place of search
THE HAGUE

Date of completion of the search
15-05-1986

Examiner
RAMBOER P.

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