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(71) Applicant: **TYCO ELECTRONICS RAYCHEM BVBA** [BE/BE]; Diestsesteenweg 692, B-3010 Kessel-Lo (BE).

(72) Inventors: **COENEGRACHT, Philippe**; Burchtstraat 17, B-3512 Hasselt (BE). **FREDERICKX, Maddy Nadine**; Liersesteenweg 10A, B-3200 Aarschot (BE).

(74) Agent: **ERK, Patrick**; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Leopoldstraße 4, 80802 Munich (DE).

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Published:

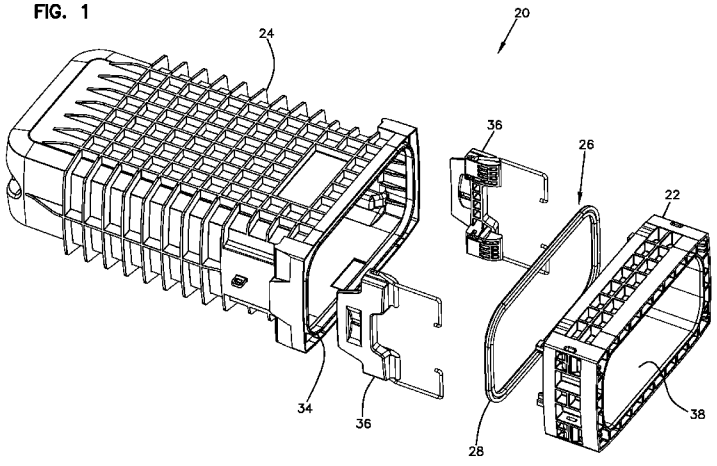
— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
31 December 2014

(54) Title: SEALING INTERFACE FOR A TELECOMMUNICATIONS ENCLOSURE

FIG. 1



(57) Abstract: A sealing interface (26) that utilizes an elastomeric sealing member (28) is disclosed herein. The sealing interface (26) is configured to provide effective sealing while requiring only relatively low amounts of force to deform the elastomeric sealing member (28) sufficiently to form an effective seal.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2014/053174

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-16

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2014/053174

A. CLASSIFICATION OF SUBJECT MATTER
INV. H01R13/52 F16J15/02 F16J15/06 H01R13/508
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01R F16J H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2012/086115 A1 (NEC CASIO MOBILE COMM LTD [JP]; MIYAGAWA TATSUYA [JP]) 28 June 2012 (2012-06-28)	1,3-6,8, 9,15
Y	abstract; figures 1-3 -& EP 2 657 579 A1 (NEC CASIO MOBILE COMM LTD [JP]) 30 October 2013 (2013-10-30) paragraph [0015] - paragraph [0032] figures 1-3	7,12-14, 16

X	WO 96/18836 A1 (RAYCHEM SA NV [BE]; DAMN JESPER [DK]; ABBOUD JACOB [GB]; BUEKERS VALER) 20 June 1996 (1996-06-20) page 15, line 13 - line 23 figures 8A, 8B	1-4,10, 11

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
29 October 2014	06/11/2014

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Henrich, Jean-Pascal

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Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2014/053174

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99/41531 A1 (RAYCHEM SA NV [BE]; RAYCHEM LTD [GB]; RADELET CHRISTIAAN [BE]; BUEKERS) 19 August 1999 (1999-08-19) page 11, line 24 - page 12, line 2 figures 2a, 2b	12-14,16
Y	US 2006/220326 A1 (LEADLEY-BROWN MAX [GB] ET AL) 5 October 2006 (2006-10-05)	7
A	the whole document	10,11

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2014/053174

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2012086115 A1	28-06-2012	CN 103370563 A	23-10-2013
		EP 2657579 A1	30-10-2013
		US 2013264225 A1	10-10-2013
		WO 2012086115 A1	28-06-2012
EP 2657579 A1	30-10-2013	CN 103370563 A	23-10-2013
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		US 2013264225 A1	10-10-2013
		WO 2012086115 A1	28-06-2012
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		DE 69906939 D1	22-05-2003
		DE 69906939 T2	24-12-2003
		EP 1053419 A1	22-11-2000
		ES 2193684 T3	01-11-2003
		US 6561522 B1	13-05-2003
		WO 9941531 A1	19-08-1999
US 2006220326 A1	05-10-2006	NONE	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16

An enclosure, composed of a first and housing pieces that fit together, presenting a sealing interface that utilizes an elastomeric sealing member in order to provide an effective seal.

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2. claims: 17, 18

2 alternative solutions are claimed:
-An enclosure, composed of a first and a second housing pieces that fit together, presenting a sealing interface that utilizes an elastomeric sealing member having an H-shaped transverse cross-sectional profile in order to provide effective sealing while requiring only relatively low amounts of force.
-An enclosure, composed of a first and a second housing pieces that fit together, presenting a sealing interface that utilizes an elastomeric sealing member having a sheet-like construction in order to provide effective sealing while requiring only relatively low amounts of force.