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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
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HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
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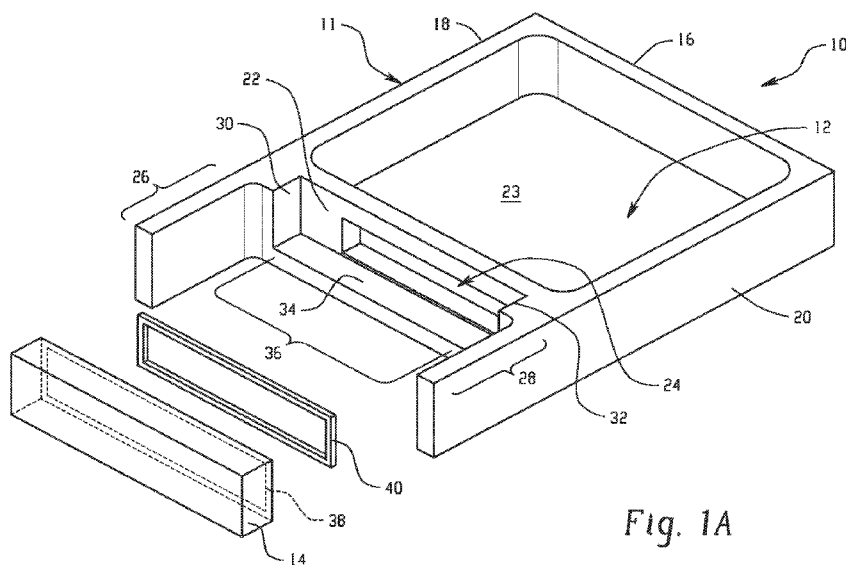


Fig. 1A

(57) Abstract: A cap assembly for optical communications comprising a housing that includes a front side perpendicular from a bottom side, opposing parallel first and second sides perpendicular from the bottom side, and a back side disposed perpendicularly between the first side and the second side offset from respective ends of the first side and the second side opposite the front side. The back side includes an opening there-through and a three-sided ledge formed along an interior of the first side leg, an exterior of the back side, and an interior of the second side leg. The cap assembly further includes a window configured to contact the three-sided ledge of the back side, the glass panel covering the opening there-through and attached to the assembly via a solder pre-form.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2014/047257

A. CLASSIFICATION OF SUBJECT MATTER

INV. H01L23/04 H01S5/022 H01L21/50
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)

H01L H01S

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.
A	JP 2001 060635 A (KYOCERA CORP) 6 March 2001 (2001-03-06) paragraphs [0002] - [0006]; figures 6-9 -----	1-3,5-7
A	US 5 550 398 A (KOCIAN THOMAS A [US] ET AL) 27 August 1996 (1996-08-27) the whole document -----	1-12
A	US 5 945 721 A (TATOH NOBUYOSHI [JP]) 31 August 1999 (1999-08-31) the whole document -----	1-12



Further documents are listed in the continuation of Box C.



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

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"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

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/047257

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.:

1-12

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-12

a cap assembly comprising a housing with an opening therein
and a window covering the opening

2. claims: 13-16

Independent method claim 13 is directed to a method of
forming a window (suitable for attachment to a cap assembly
having a metallization seal thereon).

3. claims: 17-20

solder pre-form comprising distinct layers of gold and tin
and suitable for sealing a glass panel to a plated metal
housing.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/047257

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001060635 A	06-03-2001	JP 3670527 B2 JP 2001060635 A	13-07-2005 06-03-2001
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