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[Continued on next page]

## (54) Title: SUBSEA PRESSURE RELIEF DEVICES AND METHODS

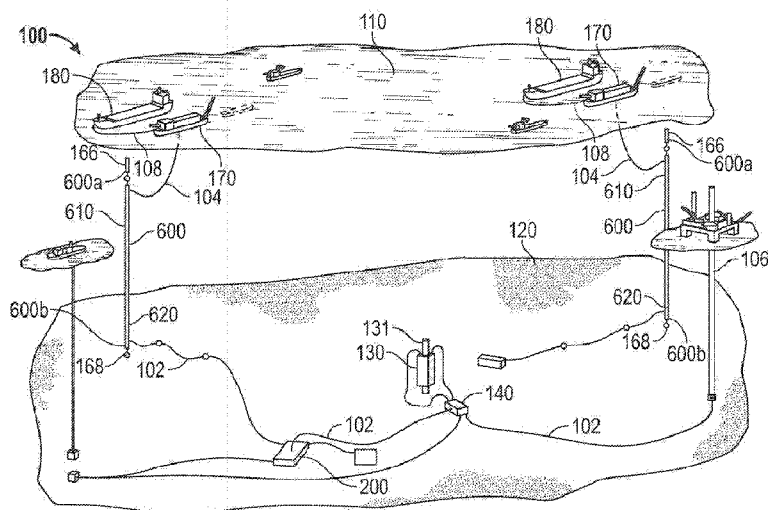


FIG. 1

(57) Abstract: A device for relieving pressure in a subsea component comprises a housing including an inner cavity, an open end in fluid communication with the inner cavity, and a through bore extending from the inner cavity to an outer surface of the housing. In addition, the device comprises a connector coupled to the open end. The connector is configured to releasably engage a mating connector coupled to the subsea component. Further, the device comprises a burst disc assembly mounted to the housing within the through bore. The burst disc assembly is configured to rupture at a predetermined differential pressure between the inner cavity and the environment outside the housing.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *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))*

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A. CLASSIFICATION OF SUBJECT MATTER  
INV. E21B33/035 E21B41/00 E21B17/01  
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)  
E21B

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, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                           | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | US 5 012 854 A (BOND JOHN A [US])<br>7 May 1991 (1991-05-07)<br>column 2, line 46 - line 58<br>figure 1                                                      | 1-20                  |
| A         | -----<br>WO 02/079659 A2 (HUNTING OILFIELD SERVICES<br>INC [US]) 10 October 2002 (2002-10-10)<br>paragraph [0049] - paragraph [0050]<br>figures 1-2<br>----- | 1-20                  |



Further documents are listed in the continuation of Box C.



See patent family annex.

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

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Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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