

Title (en)  
DUAL SENSOR AIR-IN-LINE DETECTOR

Title (de)  
DETEKTOR MIT DOPPELSENSOR FÜR LUFT IN EINER LEITUNG

Title (fr)  
DETECTEUR A DEUX CAPTEURS DESTINE A DETECTER LA PRESENCE D'AIR DANS UNE CONDUITE DE LIQUIDE

Publication  
**EP 0694163 A1 19960131 (EN)**

Application  
**EP 95911606 A 19950203**

Priority  
• GB 9402256 A 19940205  
• US 9501424 W 19950203

Abstract (en)  
[origin: WO9521374A1] A device is provided for the detection of gas, e.g. air in tubing (14) carrying a liquid. The device includes a transmitter (21) for transmitting a light beam to the liquid contained in the tubing (14), and first and second light receivers (20a, 20b) for receiving reflected and transmitted light emitted from the transmitter (21) and which is incident upon the liquid in the tubing. The light receivers are located within a body member (12) around the liquid conducting tubing and each produces a signal according to the condition of the liquid in the tubing. Both receivers produce such a given signal when gas is present in the liquid but each receiver also produces such a signal under a different liquid condition. A processing means (33) is provided which is responsive to the outputs from the two receivers and indicates that gas is present in the tubing only when both provide said given signal.

IPC 1-7  
**G01N 15/06**

IPC 8 full level  
**G01V 8/20** (2006.01); **A61M 1/36** (2006.01); **A61M 5/00** (2006.01); **A61M 5/36** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP KR)  
**A61M 5/365** (2013.01 - EP); **G01N 15/06** (2013.01 - KR); **G01N 2035/1018** (2013.01 - EP)

Cited by  
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DE FR GB

DOCDB simple family (publication)  
**WO 9521374 A1 19950810**; AU 1910995 A 19950821; AU 678709 B2 19970605; CA 2157582 A1 19950810; EP 0694163 A1 19960131; EP 0694163 A4 20000223; GB 9402256 D0 19940330; JP H08508920 A 19960924; KR 100344609 B1 20021123; KR 960702104 A 19960328; NO 953946 D0 19951004; NO 953946 L 19951204; NZ 282105 A 19970922

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