

Title (en)  
SENSOR APPARATUS

Title (de)  
SENSORVORRICHTUNG

Title (fr)  
APPAREIL DE DETECTION

Publication  
**EP 1340095 A2 20030903 (EN)**

Application  
**EP 01996752 A 20011113**

Priority  
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Abstract (en)  
[origin: WO0241025A2] A sensor apparatus for transmitting electromagnetic waves from a signal line (12) into a vessel or vice versa to measure a process variable is provided, wherein impedance variations and/or geometric variations of the parts thereof are minimized while at the same time high mechanical stability of the apparatus is ensured, the sensor apparatus (1) comprising: a mounting section (1) configured to be coupled to the vessel, a dielectric element (5, 5a, 5b, 5c, 5d) located inside the mounting section (1), and a conductive probe (9, 9a, 9b, 9c, 9d), which extends through the dielectric element (5, 5a, 5b, 5c, 5d) into the vessel, which comprises radially outwardly extending protrusions (19, 23, 25, 33) that extend into conjoining cavities (21, 32, 39) in the dielectric element (5, 5a, 5b, 5c, 5d) thus forming an interlocking structure (17) that is holding the probe (9, 9a, 9b, 9c, 9d) inside the dielectric element (5, 5a, 5b, 5c, 5d).

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**G01S 1/00**

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