

Title (en)

Ultrasonic sensor and detection method using such a sensor

Title (de)

Ultraschallsensor und Messverfahren unter Verwendung eines derartigen Sensors

Title (fr)

Capteur à ultrasons et procédés de détection utilisant un tel capteur

Publication

**EP 0733408 B1 20010704 (FR)**

Application

**EP 96400620 A 19960322**

Priority

FR 9503414 A 19950323

Abstract (en)

[origin: EP0733408A1] The ultrasonic sensor comprises several transducers (1) operating at the same frequency, about 40KHz. They are arranged at the nodes of a regular network. The transducers are circular. The distance separating the centre of two adjacent transducers in the network is, at most, the order of the wavelength in air of the waves emitted by the transducers, namely about 8.5 mm. The sensor is directional through an angle of about 20 deg. when its overall diameter (D1) is about three times that of a single transducer.

IPC 1-7

**B06B 1/06**

IPC 8 full level

**G01S 15/89** (2006.01); **B06B 1/06** (2006.01); **G01S 7/521** (2006.01); **G01S 7/523** (2006.01); **G01S 15/06** (2006.01)

CPC (source: EP US)

**B06B 1/0622** (2013.01 - EP US)

Cited by

EP0908241A3; EP0890849A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

**EP 0733408 A1 19960925**; **EP 0733408 B1 20010704**; DE 69613613 D1 20010809; FR 2732118 A1 19960927; FR 2732118 B1 19970430; JP H08338869 A 19961224; US 5703834 A 19971230

DOCDB simple family (application)

**EP 96400620 A 19960322**; DE 69613613 T 19960322; FR 9503414 A 19950323; JP 10877696 A 19960325; US 62143596 A 19960325