

Title (en)  
ICE FRACTION SENSOR

Title (de)  
EISFRAKTIONSSENSOR

Title (fr)  
DÉTECTEUR DE FRACTION DE GLACE

Publication  
**EP 2208049 A1 20100721 (EN)**

Application  
**EP 08806528 A 20081007**

Priority  
• GB 2008003388 W 20081007  
• GB 0722085 A 20071109

Abstract (en)  
[origin: GB2454517A] An optical ice fraction sensor comprises a flow path 1 defined by pipe walls 4 in which an ice-containing medium can flow, an optical emitter 2 at a first end of the flow path 1 and an optical receiver 3 at a second end of the flow path 1. In use, a light path 1 extends between the emitter 2 and receiver 3 and at least a portion of the light path is parallel to the flow path 1. Ice-containing medium flows from inlet pipe 7, along the flow path 1 and leaves via outlet pipe 8. The ice fraction sensor can be used for measuring or monitoring the ice fraction of the ice-containing medium present in the flow path. The ice-containing medium may be ice slush or an ice-containing beverage medium. A reflector (11, Fig 5) may be provided at a second end of the flow path and the emitter 2 and receiver 3 may be provided in a single unit at the first end of the flow path.

IPC 8 full level  
**G01N 21/05** (2006.01); **F25D 21/02** (2006.01); **G01N 33/18** (2006.01)

CPC (source: EP GB)  
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**G01N 21/85** (2013.01 - GB); **G01N 33/1873** (2024.05 - EP); **F25C 2301/002** (2013.01 - EP); **F25C 2700/02** (2013.01 - EP)

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