Title (en)

MEASURING TRANSDUCER BASED ON THE POSITIONING OF AT LEAST ONE MECHANICAL REVOLVING ELEMENT

Publication

EP 0205779 B1 19910612 (EN)

Application

EP 86104447 A 19860401

Priority

IT 2019585 A 19850402

Abstract (en)

[origin: EP0205779A2] A transducer is described, advantageously appliable to at least a mechanical revolving element (11a...11h), which makes up the first transducer of the quantity to be measured corresponding to a number and/or fraction of rotations; an example of such type of first transducer can be that of a meter having a predetermined number of revolving elements (11a...11h) inter-mated for measuring the quantity of fluid or gas delivered. According to the invention, to each revolving element (11a...11h) forming the first transducer of the meter, a second transducing element is associated (14a...14h), mated to the rotation of the first transducer, the second transducer being a disc (14) with openings (25) positioned according to a predetermined binary code. The second transducer is positioned so as to act as a dividing "nonius" to give a highly accurate measurement. The signals detected by the two transducers are forwarded to a suitable signal control device (18). The mating between the two transducers is also suitably predisposed.

IPC 1-7

G01D 21/00; G06M 1/27

IPC 8 full level

G06M 1/27 (2006.01); G06M 3/06 (2006.01)

CPC (source: EP)

G06M 1/27 (2013.01); G06M 3/06 (2013.01)

Cited by

GB2230629A; GB2219112A; GB2219112B; DE19920393B4; DE19920393A1; EP1050747A3; EP0325565A1; US5010334A

Designated contracting state (EPC) CH DE FR GB LI

DOCDB simple family (publication)

EP 0205779 A2 19861230; EP 0205779 A3 19880629; EP 0205779 B1 19910612; DE 3679720 D1 19910718; ES 293322 U 19860816; ES 293322 Y 19870501; IT 1183556 B 19871022; IT 8520195 A0 19850402

DOCDB simple family (application)

EP 86104447 A 19860401; DE 3679720 T 19860401; ES 293322 U 19860402; IT 2019585 A 19850402