

Title (en)  
IMRPOVED INDUCTANCE TO FREQUENCY CONVERTER CIRCUIT.

Title (de)  
VERBESSERTER INDUKTANZ-FREQUENZ-WANDLER.

Title (fr)  
CIRCUIT AMELIORE DE CONVERSION DE L'INDUCTANCE EN FREQUENCE.

Publication  
**EP 0106843 A4 19840704 (EN)**

Application  
**EP 82901691 A 19820416**

Priority  
US 8200500 W 19820416

Abstract (en)  
[origin: WO8303533A1] An improved inductive reactance to frequency converter circuit (10) for producing an output signal whose frequency is capable of variation in response to a variable input inductance or inductive reactance (30) comprises differential gain means (42) and an improved resonant circuit (20) whose resonance frequency determines the frequency of the output signal. The improved resonant circuit (20) comprises a capacitance element (60, 62) and a transformer (64) whose primary coil (70) is capable of being connected to the variable inductive input reactance (30) and whose secondary coil (68) is connected in parallel with the capacitive element (60, 62) for enabling relatively small changes in the variable input inductive reactance (30) to be measured as relatively large changes in the resonance frequency of the resonant circuit (20).

IPC 1-7  
**A61B 5/08**; G01R 27/26; H03B 5/12

IPC 8 full level  
**A61B 5/087** (2006.01); **A61B 5/113** (2006.01); **G01R 19/252** (2006.01); **G01R 27/26** (2006.01); **H03B 5/12** (2006.01); **H03B 1/00** (2006.01)

CPC (source: EP)  
**A61B 5/087** (2013.01); **A61B 5/1135** (2013.01); **G01R 19/252** (2013.01); **G01R 27/2611** (2013.01); **H03B 5/1212** (2013.01); **H03B 5/1231** (2013.01); **H03B 5/1256** (2013.01); **H03B 5/1296** (2013.01); **H03B 2200/0034** (2013.01); **H03B 2200/0098** (2013.01); **H03B 2201/012** (2013.01)

Citation (search report)

- [ED] EP 0078677 A2 19830511 - RESPITRACE CORP [US]
- [A] CH 481439 A 19691115 - SIEMENS AG [DE]
- [A] US 4279257 A 19810721 - HOCHSTEIN PETER A
- [A] DE 1815675 A1 19700702 - BLAUPUNKT WERKE GMBH
- [A] US 2950448 A 19600823 - LEONARD FINKEL, et al
- [A] US 4252129 A 19810224 - TAMURA KOHJI, et al

Designated contracting state (EPC)  
AT CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**WO 8303533 A1 19831027**; AU 8458082 A 19831104; EP 0106843 A1 19840502; EP 0106843 A4 19840704

DOCDB simple family (application)  
**US 8200500 W 19820416**; AU 8458082 A 19820416; EP 82901691 A 19820416