

Title (en)

Forceless non-contacting power transformer.

Title (de)

Kraftloser berührungsfreier Leistungstransformator.

Title (fr)

Transformateur de puissance sans contact et sans force.

Publication

**EP 0200313 A1 19861105 (EN)**

Application

**EP 86301815 A 19860313**

Priority

US 71814985 A 19850401

Abstract (en)

A transformer for coupling electrical power from a stationary location to a moving location with a minimum of disturbance forces between the stationary and movable components. The transformer is particularly adapted to coupling power to a magnetically suspended platform. The transformer includes an enclosed core housing (112) two windings, a stationary primary coil (116), and a secondary coil (117) free to move linearly and angularly over a limited displacement, where the secondary coil is affixed to the movable platform (110), thereby enabling energy to be extracted for powering apparatus mounted within the platform.

IPC 1-7

**H01F 15/02**

IPC 8 full level

**H01F 38/14** (2006.01); **H02J 17/00** (2006.01)

CPC (source: EP)

**H01F 38/14** (2013.01)

Citation (search report)

- US 4303902 A 19811201 - LESSTER LABAN E, et al
- US 4117436 A 19780926 - MACLENNAN ALEXANDER G
- US 4321572 A 19820323 - STUDER PHILIP A, et al
- US 2432982 A 19471223 - BRADDON FREDERICK D, et al

Cited by

GB2280315A; FR2698219A1; FR2698220A1; EP0374749A1; EP3932149B1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0200313 A1 19861105; EP 0200313 B1 19900117**; DE 3668393 D1 19900222; JP H0652686 B2 19940706; JP S61231706 A 19861016

DOCDB simple family (application)

**EP 86301815 A 19860313**; DE 3668393 T 19860313; JP 6044886 A 19860318