

Title (en)  
CURRENT TRANSFORMER HAVING A RECTANGULAR MAGNETIC CORE

Publication  
**EP 0196992 B2 19930120 (DE)**

Application  
**EP 86730039 A 19860304**

Priority  
DE 3508327 A 19850306

Abstract (en)  
[origin: US4700166A] A current transformer comprises coil forms mounted on two opposite legs of a rectangular iron core, and insulating parts for insulating the iron core from a current bar which can be brought through the interior of the current transformer. The coil forms are connected together at both ends by an insulating part which surrounds at least partially the exposed legs of the iron core in U-fashion. For manufacturing a current transformer, the coil forms are first connected by assembling the insulating parts to the coil forms to form a frame into which L-shaped laminations are inserted to form the iron core. These laminations are connected at the abutting gaps by a welded seam. The current transformer is suitable particularly for use in low-voltage circuit breakers.

IPC 1-7  
**H01F 40/06**; **H01F 27/30**; **H01F 27/32**

IPC 8 full level  
**H01F 38/28** (2006.01); **H01F 27/30** (2006.01); **H01F 27/32** (2006.01); **H01F 38/30** (2006.01)

CPC (source: EP US)  
**H01F 27/306** (2013.01 - EP US); **H01F 27/325** (2013.01 - EP US); **H01F 38/30** (2013.01 - EP US); **Y10T 29/49073** (2015.01 - EP US)

Cited by  
DE19815153C1; WO9524050A3; WO9950861A1

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0196992 A1 19861008**; **EP 0196992 B1 19880928**; **EP 0196992 B2 19930120**; DE 3508327 A1 19860911; DE 3660846 D1 19881103; IN 165981 B 19900217; JP H0630307 B2 19940420; JP S6249611 A 19870304; US 4700166 A 19871013

DOCDB simple family (application)  
**EP 86730039 A 19860304**; DE 3508327 A 19850306; DE 3660846 T 19860304; IN 188CA1986 A 19860312; JP 4604086 A 19860303; US 83639386 A 19860305