

Title (en)  
COMPACT COILED COIL INCANDESCENT FILAMENT WITH SUPPORTS

Publication  
**EP 0271857 A3 19900516 (EN)**

Application  
**EP 87118489 A 19871214**

Priority  
US 94233986 A 19861216

Abstract (en)  
[origin: EP0271857A2] This invention provides an improved compact fine wire incandescent lamp filament and method for making the same. The filament has a primary mandrel ratio in the range of about 1.40 to about 4.00 and a secondary mandrel ratio which is greater than or equal to the primary mandrel ratio. The length between supports is kept less than or equal to 20 times the secondary diameter. The improved filament design exhibits an increase in compactness and retains or increases structural rigidity while exhibiting minimal sag when the filament is incorporated into an incandescent lamp of the tungsten halogen type variety. The compact coiling method is particularly useful in designing compact filaments for high voltage applications where it is desirable to eliminate the use of rectifying means to lower the effective voltage across the filament.

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**H01K 1/14**; **H01K 1/18**

IPC 8 full level  
**H01K 1/14** (2006.01); **H01K 1/18** (2006.01)

CPC (source: EP)  
**H01K 1/14** (2013.01); **H01K 1/18** (2013.01)

Citation (search report)

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