Title (en)
Roller electrode and apparatus for the surface treatment of foils with an electric corona discharge.

Title (de)
Walzenelektrode und Vorrichtung zur Oberflächenvorbehandlung von Folienbahnen mittels elektrischer Koronaentladung.

Title (fr)
Electrode tambour et appareil pour traitement de surface de feuilles par décharge électrique corona.

Publication
EP 0274043 B1 19940511 (DE)

Application
EP 87117347 A 19871125

Priority
DE 3641169 A 19861202

Abstract (en)
[origin: US4839517A] An apparatus to increase the adhesive properties of an electrode material embedded in a synthetic resin matrix of a conductive layer and also to improve the mechanical strength of the composite body comprising the synthetic resin matrix and the embedded electrode material, without giving rise to technical problems in the processing of the composite body into a roll electrode by a known winding process, is provided. Electrically conductive fibers are embedded in the electrically conductive layer and the roll electrode is formed of at least one electrically conductive layer of fiber-reinforced synthetic resins and at least one fiber-reinforced insulating layer of synthetic resins. Roll electrodes of this type are used as counter-electrodes in corona devices for treating the surfaces of film webs by means of an electrical corona discharge, in order to improve the printability of the film webs or to increase the bond strength of the film webs with other layer materials.

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H01T 19/00

IPC 8 full level
H01T 19/00 (2006.01)

CPC (source: EP US)
H01T 19/00 (2013.01 - EP US)

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DE FR GB SE

DOCDB simple family (publication)
DE 3641169 A1 19880609; DE 3789804 D1 19940616; DK 631087 A 19880603; DK 631087 D0 19871201; EP 0274043 A1 19880713; EP 0274043 B1 19940511; US 4839517 A 19890613

DOCDB simple family (application)
DE 3641169 A 19861202; DE 3789804 T 19871125; DK 631087 A 19871201; EP 87117347 A 19871125; US 12649787 A 19871130