

Title (en)

Double line electrode unit for electro-coagulation printer and method of making it

Title (de)

Doppelzeilenelektrodeneinheit für einen Drucker mit elektrostatischer Flockenbildung und Verfahren zu ihrer Herstellung

Title (fr)

Unité d'électrode à double-ligne pour une imprimante à électro-coagulation et procédé de fabrication

Publication

**EP 1147898 A2 20011024 (EN)**

Application

**EP 01109774 A 20010420**

Priority

JP 2000119963 A 20000420

Abstract (en)

A double line electrode unit for use in an electro-coagulation printer contains a pair of electrode plates (211, 212), negative electrodes (211b, 212b) and a prepreg (or an insulating layer) (213). The negative electrodes are linearly arranged with prescribed intervals of distance (L) therebetween on surfaces of the electrode plates respectively and are embedded in insulating resin materials (211d, 212d) being solidified. The insulating resin materials contain fillers that are selected from among prescribed materials of boron nitride, aluminum nitride alumina and silica. In addition, connectors (211c, 212c) are arranged on other surfaces of the electrode plates in connection with the negative electrodes respectively. The electrode plates are consolidated under heating and pressurized conditions by way of the prepreg such that the negative electrodes respectively arranged on the surfaces of the electrode plates face with each other by intervention of the prepreg, which has a prescribed thickness and is made by fabric material such as glass fibers impregnated with unhardened resin. After filling and solidifying the insulating resin materials on the negative electrodes of the electrode plates, inspection is performed such that electrification is made with respect to each of basic units of negative electrodes to locate an electrification failure area. Then, the complete electrode plate is made by jointing together a prescribed number of the basic units of negative electrodes excluding a basic unit of negative electrodes corresponding to the electrification failure area, which is cut and removed.

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- US 6045674 A 20000404 - CASTEGNIER ADRIEN [CA]

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