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Giotis

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(54) **HAIR TRANSPLANTING DEVICE AND METHOD FOR THE USE THEREOF**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 713 days.

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(51) **Int. Cl.**
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(52) **U.S. Cl.**
USPC **606/187**

(58) **Field of Classification Search**
USPC 604/57, 59–63; 606/131, 133, 187
See application file for complete search history.

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(57) **ABSTRACT**

A direct hair transplanting device enabling sequential harvesting of single hair follicles from a donor region and implantation of the same at a recipient zone of the scalp comprising a tubular housing (30) with a forwardly projecting tubular needle (2) with an outermost end being formed with a conical obliquely cut knife edge cutting surface. A hair follicle is extracted through rotation of the cutting surface of the needle around a selected hair follicle at the target donor region of the scalp and implantation of the same at a selected recipient locus of the scalp being effected through initiating a forward stroke of a push rod (7) slidable within the interior of tubular needle (2) to implant the hair follicle into the scalp. Appropriate regulation and fine adjustment of the depth of intrusion of needle (2) into the scalp is obtained through differentiated depth of screwing of an internally threaded tubular shaft (35) holding the needle around an externally threaded perimeter of a cylindrical member (34) detachably mounted onto the tubular housing (30).

5 Claims, 8 Drawing Sheets

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If the application for this patent was filed on or after December 12, 1980, maintenance fees are due three years and six months, seven years and six months, and eleven years and six months after the date of this grant, or within a grace period of six months thereafter upon payment of a surcharge as provided by law. The amount, number and timing of the maintenance fees required may be changed by law or regulation. Unless payment of the applicable maintenance fee is received in the United States Patent and Trademark Office on or before the date the fee is due or within a grace period of six months thereafter, the patent will expire as of the end of such grace period.

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If the application for this patent was filed on or after June 8, 1995, the term of this patent begins on the date on which this patent issues and ends twenty years from the filing date of the application or, if the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121, or 365(c), twenty years from the filing date of the earliest such application ("the twenty-year term"), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b), and any extension as provided by 35 U.S.C. 154(b) or 156 or any disclaimer under 35 U.S.C. 253.

If this application was filed prior to June 8, 1995, the term of this patent begins on the date on which this patent issues and ends on the later of seventeen years from the date of the grant of this patent or the twenty-year term set forth above for patents resulting from applications filed on or after June 8, 1995, subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b) and any extension as provided by 35 U.S.C. 156 or any disclaimer under 35 U.S.C. 253.

