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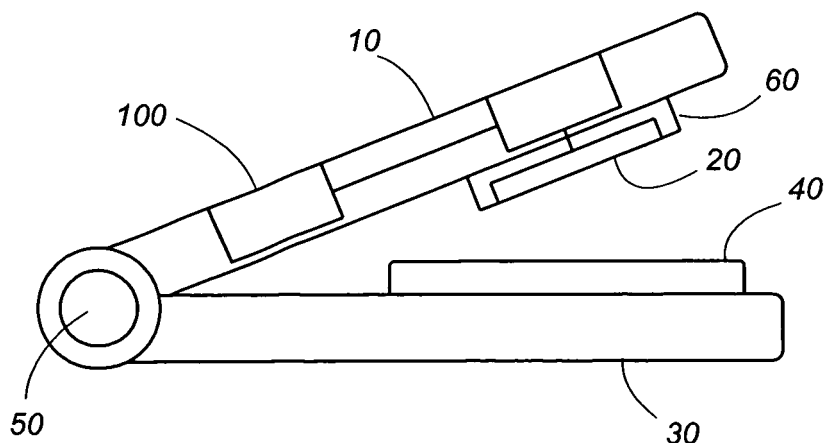
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(54) **Ultrasonic hair treatment device**

(57) An ultrasonic hair treatment device (D) is provided to apply ultrasonic vibrations to a user's hair for enhancing the penetration of a hair treatment composition into the hair. An ultrasonic vibration element is held on a support (10) to which a clamp member is pivotally connected, so as to give the ultrasonic vibration to the hair clamped between the support (10) and the clamp member (30). The ultrasonic vibration element (20) is

configured to have a rectangular vibration face and to have a plurality of resonant points (24) arranged in a lattice pattern on the rectangular vibration face (22). Thus, the ultrasonic vibrations of maximum amplitude developed at the plural resonance points (24) can be applied to the hair over the entire rectangular vibration face (22), thereby applying the uniform ultrasonic vibration effect to the hairs for expediting the penetration of a hair treatment composition into the hairs.

**FIG. 3**





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 06 01 0710

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			A45D B06B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		14 November 2007	IONESCU, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 06 01 0710

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