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**16762142.4 / 3 264 935**

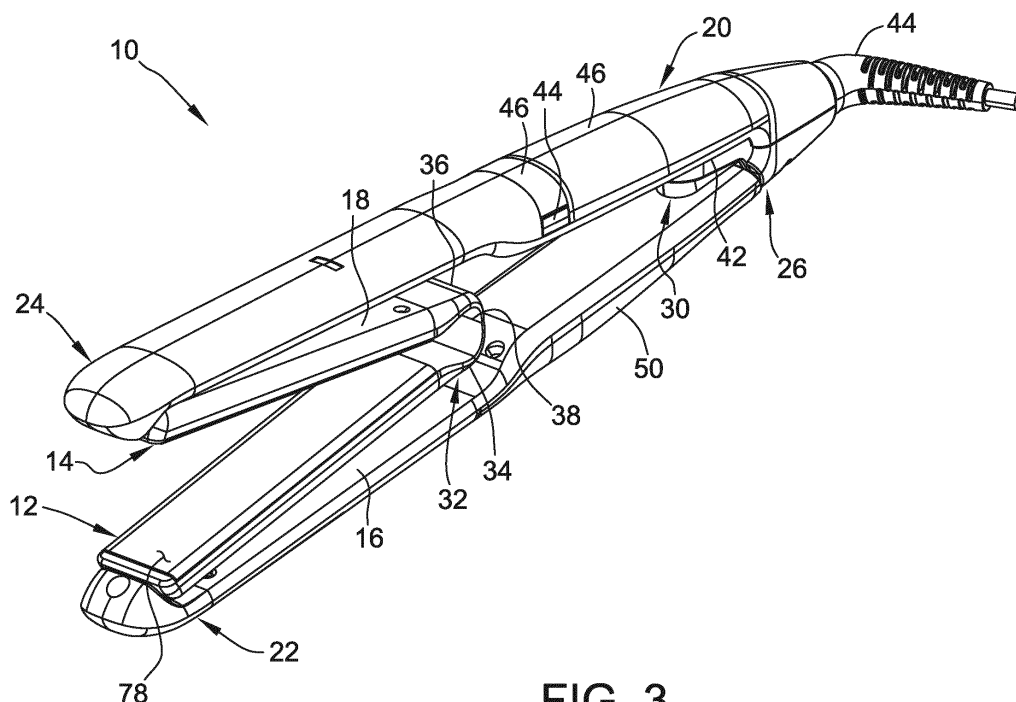
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(54) **HAIR STYLING APPARATUS WITH INSULATING AIR GAPS**

(57) A hair styling apparatus includes first and second arms, each having respective first and second ends. The first and second arms are pivotably coupled to each other at least at the first end of the first arm for selective, pivotal movement relative to each other to configure the hair styling apparatus between an opened position and a closed position. A heating assembly has a first and second end. The second end of the heating assembly is pivotably coupled to the second end of the first arm. The heating assembly includes a heat plate having a hair-heating surface. The heat plate is spaced from the first arm in both the opened position and the closed position of the hair styling apparatus to define an air gap therebetween.



**FIG. 3**

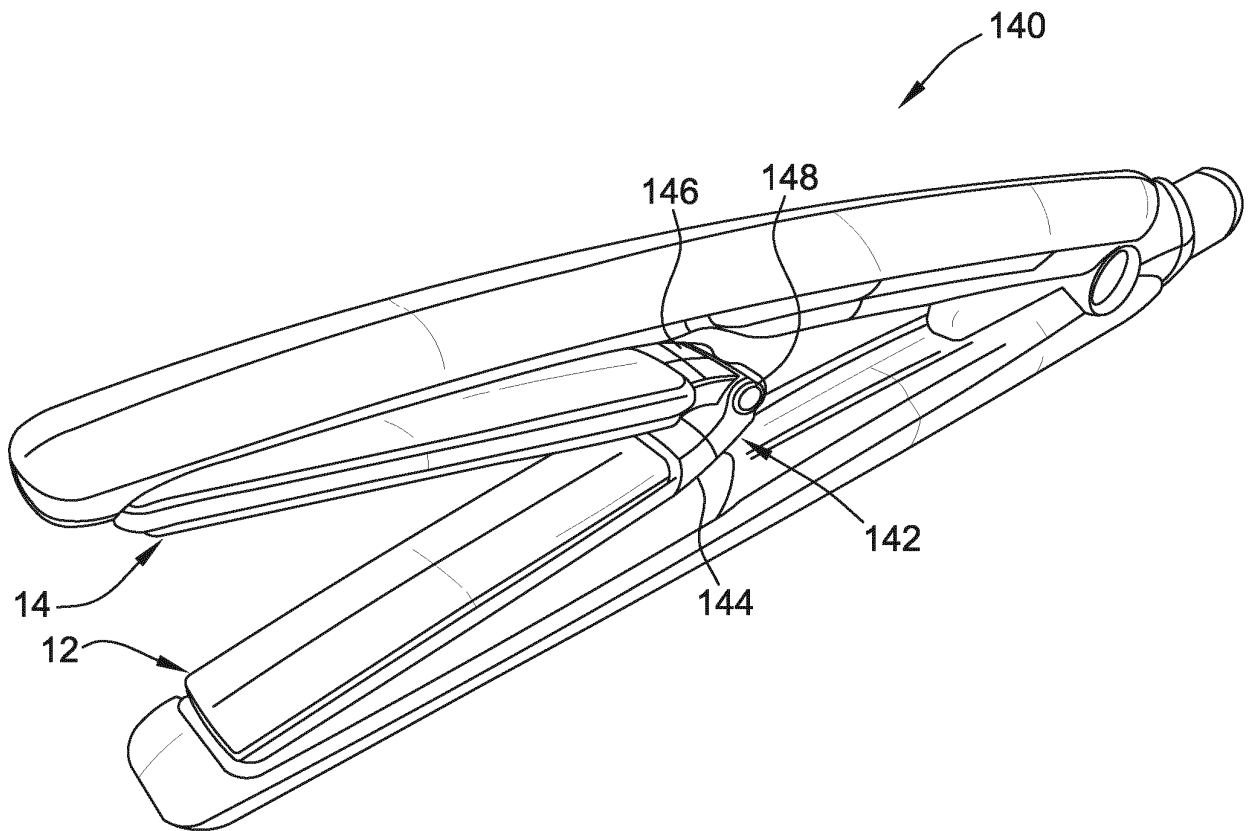


FIG. 12



## EUROPEAN SEARCH REPORT

Application Number  
EP 21 17 2428

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 2007/240731 A1 (MUKAI TAKASHI [JP]) 18 October 2007 (2007-10-18) * paragraph [0028] - paragraph [0074]; claims 1-7; figures 1-9B *	1-10	INV. A45D1/00 A45D1/02 A45D1/04 A45D1/06 A45D1/14 A45D1/28 A45D2/00 A45D2/40 A45D6/00
Y	EP 2 636 333 A1 (BSH BOSCH SIEMENS HAUSGERAETE [DE]) 11 September 2013 (2013-09-11) * paragraph [0015] - paragraph [0044]; claims 1-12; figures 1-7B *	1-10	
A	US 2010/147323 A1 (HAFEMANN KLAUS [DE]) 17 June 2010 (2010-06-17) * abstract; claims 1-10; figures 1-4 *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			A45D
<p><del>The present search report has been drawn up for all claims</del></p>			
Place of search		Date of completion of the search	Examiner
The Hague		14 July 2021	Oliveras, Mariana
<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 &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-10

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

## 1. claims: 1-10

A hair styling apparatus comprising: first and second arms, and an air-gap between each of the arms and two heat plates pivotably coupled to the extrimity of each arm, characterised by having the proximal end of the heat plates coupled to each other.

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## 2. claims: 11-14

A hair styling apparatus comprising: first and second arms, and an air-gap between one of the arms and a heat plate.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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14-07-2021

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82