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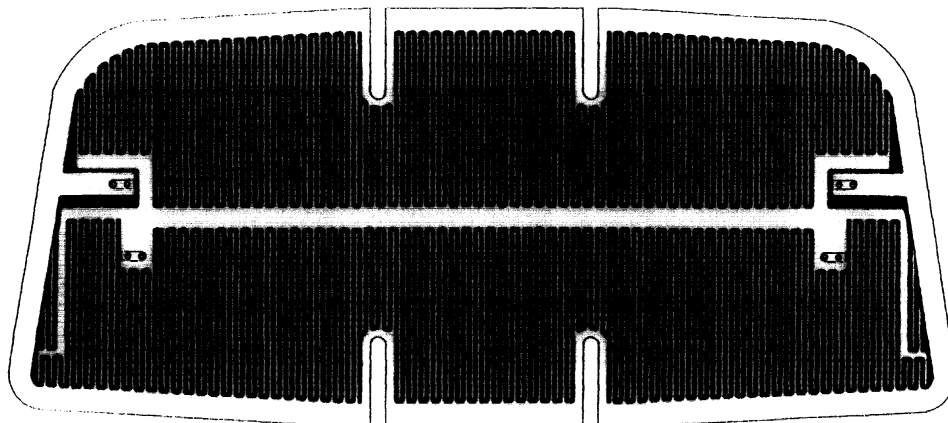
(54) **Positive temperature coefficient heater and production method thereof**

(57) A positive temperature coefficient heater produced by protecting the form of a definite pattern on an insulator having an aluminum thin film using an etching resist, after etching the portions unprotected with the above-described etching resist using an etching agent, removing the etching resist and the etching agent, and further printing a definite form using a carbon paste to connect electrode terminals to aluminum electrode layer

in parallel.

In the positive temperature coefficient heater of the present invention, as compared with using a conventional silver paste, there is almost no deviation of temperature, the production cost is greatly reduced, and further the production step is simplified, whereby when the positive temperature coefficient heater is attached to the inside of a side mirror of a motorcar, an excellent effect is shown in the removal of fogging, ice, etc.

Fig. 1A



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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 5382

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A	EP 0 408 207 A (ILLINOIS TOOL WORKS INC.) 16 January 1991 (1991-01-16) * abstract * * column 3, line 39 - column 4, line 13 * * claims 1,8 * ---	1-3	
A	DE 197 02 448 A (DEUTSCHE SPEZIALGLAS AG) 30 July 1998 (1998-07-30) * abstract * * column 1, line 1-15 * * column 1, line 39-53 * * column 1, line 61 - column 2, line 9 * * claims 1,2,7 * * figures 1-4 * -----	1-3	<div>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</div> <div>H05B C23F</div>
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 November 2001	Examiner D/L TASSA LAFOR., J
CATEGORY OF CITED DOCUMENTS 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		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 & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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