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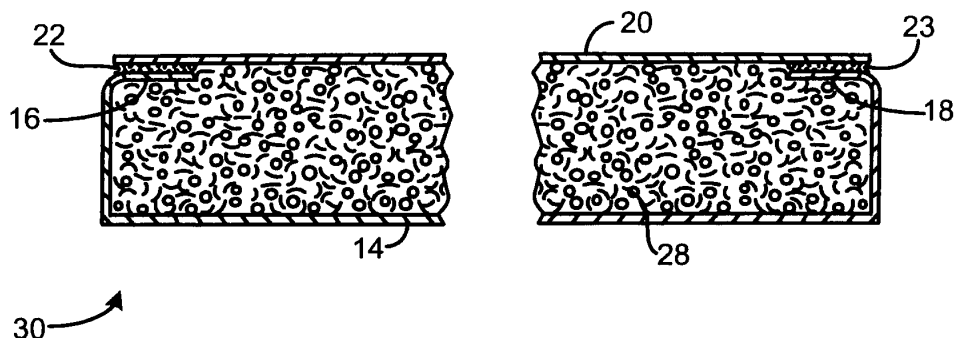
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(54) **Microfiber-containing fiber reinforced facer mats and the method of making**

(57) Fiber-reinforced composite mats are described that include a non-woven web of fibers. The web of fibers may include a first group of fibers having an average fiber diameter from about 8  $\mu\text{m}$  to about 25  $\mu\text{m}$ , and a second group of fibers having an average fiber diameter from about 0.5  $\mu\text{m}$  to about 6.5  $\mu\text{m}$ . A binder bonds together

the non-woven web of fibers into the fiber reinforced composite having an air permeability of 250  $\text{cfm/ft}^2$  or less. Also described are gypsum boards that include one or more facers affixed to at least one surface of the gypsum board. The facers may be made from the above, described fiber-reinforced composite mats.



**Fig. 1**



## EUROPEAN SEARCH REPORT

Application Number  
EP 13 00 0048

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| The present search report has been drawn up for all claims  |   |  |   |
| Place of search<br><b>The Hague</b>   |   | Date of completion of the search<br><b>27 September 2013</b> | Examiner<br><b>Barathe, Rainier</b>     |
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