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(54) **Title:** MONOCLONAL ANTIBODY AND ANTIGENS FOR DIAGNOSING AND TREATING LUNG DISEASE AND INJURY

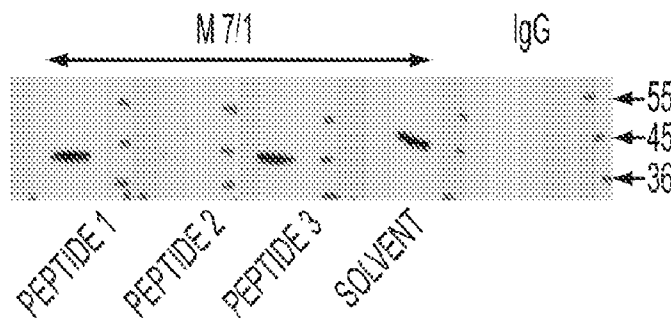


FIG. 17

(57) **Abstract:** The present invention provides methods for diagnosing a patient with emphysema, COPD of lung injury caused by tobacco use by detecting the levels of EMAP II in a sample. Disclosed herein are the hypervariable regions for a rat monoclonal antibody that binds to a form of EMAP II. This disclosure also includes a polypeptide sequence included in EMAP II that is the target for the binding of the antibody to its target protein. This epitope serves as the basis for a humanized antibody that can be used to treat patients that suffer from pathologies that exhibit elevated levels of EMAP II expression.



A. CLASSIFICATION OF SUBJECT MATTER*A61K 39/395(2006.01)i, A61P 35/00(2006.01)i, A61P 11/00(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K 39/395; A61L 9/04; C07K 16/18; A61K 48/00; A61K 38/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: , ,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003-0039652 A1 (MARGARET A. SCHWARZ) 27 February 2003 See abstract, claims 15-24, paragraphs [0010]-[0018]	1-29
A	US 2002-0160957 A1 (DAVID M. STERN et al.) 31 October 2002 See abstract, paragraphs [0008]-[0014]	1-29

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family


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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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