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(54) Title: TEMPERATURE-SENSITIVE LIVE VACCINE FOR *MYCOPLASMA HYOPNEUMONIAE*

(57) Abstract: The present invention provides a live temperature-sensitive vaccine for *Mycoplasma hyopneumoniae*. The present invention also provides methods of vaccinating a swine against colonization or infection of *Mycoplasma hyopneumoniae*.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N1/20 C12N1/36 A61K39/02 A61P31/04 //C12R1:35		
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B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C12N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, EPO-Internal, BIOSIS, PAJ, EMBASE, LIFESCIENCES		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MORROW C J ET AL: "PRODUCTION OF TEMPERATURE-SENSITIVE CLONES OF MYCOPLASMA SYNOVIAE FOR EVALUATION AS LIVE VACCINES" AVIAN DISEASES, AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS, KENNET SQ., PA, US, no. 42, 1998, pages 667-670, XP001077047 ISSN: 0005-2086 the whole document --- -/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input type="checkbox"/> Patent family members are listed in annex.		
° Special categories of cited documents :		
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Noë, V

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>LAI W C ET AL: "BIOLOGICAL EVALUATION OF MYCOPLASMA-PULMONIS TEMPERATURE-SENSITIVE MUTANTS FOR USE AS POSSIBLE RODENT VACCINES" INFECTION AND IMMUNITY, vol. 58, no. 7, 1990, pages 2289-2296, XP002200882 ISSN: 0019-9567 cited in the application the whole document</p> <p style="text-align: center;">----</p>	
A	<p>DATABASE WPI Section Ch, Week 197843 Derwent Publications Ltd., London, GB; Class B04, AN 1978-77245A XP002200883 & JP 53 107412 A (KACHIKU EISEI SHIKE), 19 September 1978 (1978-09-19) abstract</p> <p style="text-align: center;">----</p>	
A	<p>SLAVIK M ET AL: "IMMUNIZATION OF SWINE WITH MYCOPLASMA-HYOPNEUMONIAE VACCINES" IOWA STATE JOURNAL OF RESEARCH, vol. 53, no. 4, 1979, pages 297-300, XP001075099 EN ISSN: 0092-6345 the whole document</p> <p style="text-align: center;">-----</p>	

INTERNATIONAL SEARCH REPORT
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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