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**Kirsch et al.**

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(54) **CHIMERIC PROMOTERS CAPABLE OF MEDIATING GENE EXPRESSION IN PLANTS UPON PATHOGEN INFECTION AND USES THEREOF**

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(71) Applicant: **MAX-PLANCK-GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.**, Berlin (DE)

(72) Inventors: **Christoph Kirsch**, Cologne (DE); **Elke Logemann**, Pulheim-Dansweiler (DE); **Klaus Hahlbrock**, Freiburg (DE); **Paul Rushton**, Brookings, SD (US); **Imre Somssich**, Cologne (DE)

(58) **Field of Classification Search**

None

See application file for complete search history.

(73) Assignee: **Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V.**, Berlin (DE)

(56) **References Cited**

U.S. PATENT DOCUMENTS

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

*Primary Examiner* — Maria Marvich

(74) *Attorney, Agent, or Firm* — Patent Central LLC; Stephan A. Pendorf

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(30) **Foreign Application Priority Data**

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(57) **ABSTRACT**

Described are synthetic promoters capable of mediating gene expression in plants upon pathogen infection. Furthermore, recombinant genes and vectors comprising said chimeric promoters as well as host cells transformed with such chimeric promoters, recombinant genes, or vectors are provided. Additionally, diagnostic compositions and kits comprising such chimeric promoters, recombinant genes, vectors or cells are described. Provided are further methods for the identification of compounds being capable of activating or inhibiting genes that are specifically expressed in plants upon pathogen infection employing the above described means. Furthermore, transgenic plant cells, plant tissue, and plants containing the above-described chimeric promoters, recombinant genes, and vectors as well as the use of the aforementioned chimeric promoters, recombinant genes, vectors and/or compounds identified by the method of the invention in plant cell and tissue culture, plant breeding, and/or agriculture are described.

**31 Claims, 21 Drawing Sheets**