

Title (en)
RHIZOBACTERIAL PLANT PROTECTION.

Title (de)
PFLANZENABSCHIRMUNG MITTELS RHIZOBAKTERIEN.

Title (fr)
PROTECTION DES PLANTES A L'AIDE DE RHIZOBACTERIES.

Publication
EP 0160089 A4 19860516 (EN)

Application
EP 84904239 A 19841025

Priority
US 54572283 A 19831026

Abstract (en)
[origin: WO8501878A1] Rhizobacteria having nemastatic properties introduced to the rhizosphere of a plant host are to protect said plant host against nematode and fungal infestation. Particularly, *Serratia marcescens* strain NA1 provides significant protection to susceptible plant hosts and can be used as a source for genetic material for introduction to other bacteria to provide the desired properties. Colonization of the rhizosphere and production of anti-nematodal toxins by the rhizobacterial strain may be enhanced by the application of a suitable nutrient source, particularly one having assimilable nitrogen.

IPC 1-7
A61K 37/00; **A01C 1/06**; **A01C 1/00**; **C12N 5/00**; **C12N 5/02**; **C12N 1/00**; **C12N 1/20**; **C12R 1/01**; **C12R 1/41**; **C12R 1/645**

IPC 8 full level
A01C 1/08 (2006.01); **A01N 63/20** (2020.01); **A01N 63/22** (2020.01); **A01N 63/27** (2020.01); **C07K 14/24** (2006.01)

CPC (source: EP US)
A01C 1/08 (2013.01 - EP); **A01N 63/20** (2020.01 - EP US); **A01N 63/22** (2020.01 - EP US); **A01N 63/27** (2020.01 - EP US); **C07K 14/24** (2013.01 - EP); **C12N 1/205** (2021.05 - EP US); **C12R 2001/43** (2021.05 - EP US)

Citation (search report)
• [A] EP 0064720 A2 19821117 - UNIV MONTANA RES DEV INST INC [US]
• [X] JOURNAL OF NEMATOLOGY, vol. 14, no. 4, October 1982, pages 475A-475B; E. ZAVALITA-MEJIA et al.: "Effects of rhizobacteria on meloidogyne infection"
• [X] CENTRAL PATENTS INDEX, BASIC ABSTRACTS JOURNAL, Section C, Week K12, 18th May 1983, abstract no. 28607, Derwent Publications, London, GB; & JP - A - 58 024 508 (TOMOE KAGAKU KOGYO) 14-02-1983
• [X] CENTRAL PATENTS INDEX, BASIC ABSTRACTS JOURNAL, Section C, Week K12, 18th May 1983, abstract no. 28348, Derwent Publications, London, GB; & JP - A - 58 023 611 (TOMOE KAGAKU KOGYO) 12-02-1983
• [A] NATURE, vol. 286, no. 5776, 28th August 1980, pages 885-886, Basingstoke, GB; J.W. KLOPPER et al.: "Enhanced plant growth by siderophores produced by plant growth-promoting rhizobacteria"
• See references of WO 8501878A1

Designated contracting state (EPC)
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US 8401741 W 19841025; AU 3672084 A 19841025; EP 84904239 A 19841025