

Title (en)

IMPROVED CONCENTRATED HEAT AGRICULTURAL FLAME CULTIVATOR APPARATUS

Title (de)

VERBESSERTE LANDWIRTSCHAFTLICHE UNKRAUTVERTILGUNG VORRICHTUNG DURCH KONZENTRIERTE WÄRME

Title (fr)

APPAREIL PERFECTIONNE DE DESHERBAGE AGRICOLE PAR CHALEUR CONCENTREE

Publication

**EP 0909126 A4 19990922 (EN)**

Application

**EP 97928064 A 19970704**

Priority

- AU 9700429 W 19970704
- AU PO087796 A 19960705
- AU PO194796 A 19960828
- AU PO387996 A 19961127

Abstract (en)

[origin: WO9801031A1] An agricultural flame cultivator is disclosed comprising a burner construction of bunsen burner type having a gas inlet, a mixing chamber and burner outlet, the burner outlet including a gauze or mesh member insert bordering the mixing chamber at or near the burner outlet for directing flame into a zone of treatment within the cultivator and an additional burner positioned to direct additional heat into the same zone of treatment to boost heat in the zone of treatment. A vaporiser for LPG gas is also disclosed in which metering means for controlling the flow of liquid fuel into the vaporiser, the metering means being located in the vaporiser chamber or closely adjacent thereto to minimise the volume of fuel between the metering means and the heating means thus ensuring complete vaporisation of the liquid fuel and allowing conventional pressure regulation of the gaseous fuel. In a modified form, the vaporiser is fitted with a metering means that is adjustable. In a further modified form the metering means includes a relatively large orifice to minimise the risk of blockage. An implement for a flame cultivator is disclosed including deflection foils or vanes useful to direct heated air down to ground level in use.

IPC 1-7

**A01M 21/04**; **A01M 15/00**; **F23D 14/66**

IPC 8 full level

**A01M 17/00** (2006.01); **A01M 15/00** (2006.01); **A01M 21/04** (2006.01); **F23D 11/44** (2006.01); **F23D 14/48** (2006.01); **F23D 14/66** (2006.01)

CPC (source: EP KR)

**A01M 15/00** (2013.01 - EP KR); **A01M 21/04** (2013.01 - EP); **F23D 14/48** (2013.01 - EP); **F23D 14/66** (2013.01 - EP); **Y02E 20/34** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9801031A1

Designated contracting state (EPC)

DE ES FR GB IT NL SE

DOCDB simple family (publication)

**WO 9801031 A1 19980115**; EP 0909126 A1 19990421; EP 0909126 A4 19990922; JP 2000516448 A 20001212; KR 20000022461 A 20000425; NZ 333772 A 20000428

DOCDB simple family (application)

**AU 9700429 W 19970704**; EP 97928064 A 19970704; JP 50458298 A 19970704; KR 19980710898 A 19981231; NZ 33377297 A 19970704