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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR PLOUGHING

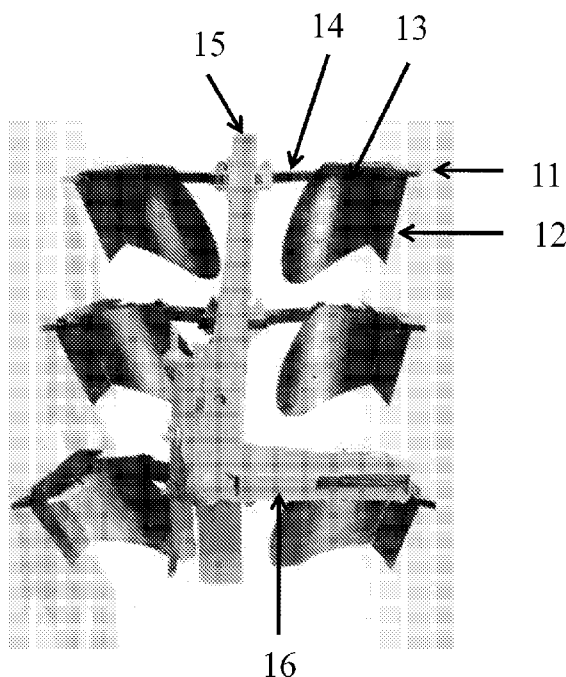


FIGURE 1

(57) Abstract: A system for ploughing, wherein the system
comprises a) a central shaft which is capable of rotating
about the horizontal plane; b) a connector component which
connects the central shaft to a vehicle; and c) at least one
pair of plough enabler assembly; wherein the two plough en-
abler assemblies of the said pair are connected to the central
shaft in a manner that they are placed on the opposite sides
of the shaft and have reverse orientation in terms of the
angle of performance of ploughing; and wherein the angle
made by the central shaft with respect to the connector com-
ponent is an acute angle; and wherein the plough enabler as-
sembly comprises i. a mouldboard; ii. a blade which is con-
nected to the mouldboard; and iii. a pin which is connected
to the blade.



Declarations under Rule 4.17:

— *as to the identity of the inventor (Rule 4.17(i))*

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

A01B 15/02 (2006.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: A01B

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 practicable, search terms used)

CNKI, CNABS, VEN: plough???, acute, angle, moldboard, pin, reverse.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1700517 A1(KUHN-HUARD SA) 13September.2006(13.09.2006) the description, paragraphs [0013] to [0032] and figures1 to 4	1-10
X	EP 0087334 A1(CHARRUES NAUD SA)31 August.1983(31.08.1983) the description, pages 5 to 7 and figures1 to 4	1-10
X	CN 201509396 U(HAN R) 23January.2010(23.06.2010) the description, paragraph [0008] and figure1	1-10
A	CN 102160475 A(JIANGSU JINGAN AGRICULTURAL EQUIPMENT CO LTD)	1-10

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

* Special categories of cited documents:	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“A” document defining the general state of the art which is not considered to be of particular relevance	“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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“O” document referring to an oral disclosure, use, exhibition or other means	
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Date of the actual completion of the international search 13December.2013(23.12.2013)	Date of mailing of the international search report ~~02 Jan. 2014 (02.01.2014)~~ 02-Jan-2014
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer TAN, Feiwen Telephone No. (86-10)62085532

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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	24 August.2011(24.08.2011) the whole document CN 2333145 Y(GUO DONG) 18August.1999(18.08.1999) the whole document	1-10

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
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		FR 2882619 A1	08.09.2006
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CN 201509396 U	23.06.2010	None	
CN 102160475 A	24.08.2011	None	
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