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(54) **Title:** AGRICULTURAL MIXER WITH DRIVE SYSTEM AND METHOD OF USING SAME

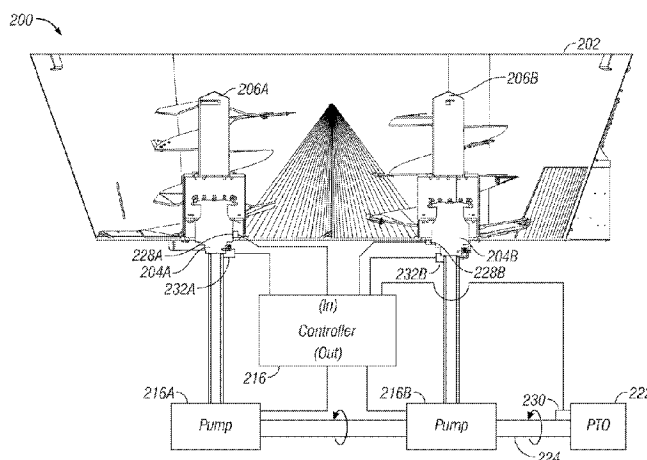


FIG. 5

(57) **Abstract:** ABSTRACT An agricultural mixer includes a hydraulic drive system. The mixer includes an automatic jam-resolving feature, whereby if an auger becomes jammed, the drive system will cause the auger to rotate in a reverse direction for a period of time to resolve the jam. The hydraulic drive system will maintain a speed of rotation of the auger at a relatively constant rate during mixing while choosing an efficient displacement setting for the hydraulic motor. The auger is maintained at a constant speed during a discharge mode by maintaining the motor in a maximum displacement setting. A clean-out mode is provided wherein the auger is rotated at a maximum speed to aid in cleaning out the last remaining feed mixture in the mixer.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/043708**A. CLASSIFICATION OF SUBJECT MATTER*****A01K 5/00(2006.01)i, B01F 7/24(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)

A01K 5/00; B01F 7/24; A01K 61/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: mixer, auger, drive mechanism, jam detection, sensor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05462354 A (NEIER; BENJAMIN R.) 31 October 1995 See abstract; column 2 line 64-column 6 line 39; figures 1-4; claim 1	1-23
A	US 7341372 B2 (VAN DER PLAS, N.) 11 March 2008 See abstract; column 3 line 4-column 8 line 24; figures 1-3; claim 1	1-23
A	US 2002-0033142 A1 (JEAN-PAUL MARTIN et al.) 21 March 2002 See abstract; paragraphs [0017]-[0025]; figures 1-4; claim 1	1-23
A	US 6575615 B2 (ROWE; DANIEL L. et al.) 10 June 2003 See abstract; column 2 line 41-column 3 line 21; figure 1; claim 1	1-23



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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