FRI-ONLINE-1-AMT&ASVM-01

PRINCIPLE AND CONSTRUCTION OF CONTINUOUS OPERATION DIGGER FOR BANANA TREE PLANTATION[1]

Nguyen Duc Long, MSc.
Science & International cooporation Division, Vietnam
Institute of Agricultural Engineering & Post-Harvest Technology
Tel.: +844 998 488 8255,
E-mail: longvcd@gmail.com

COR MEM Prof. Hristo Beloev, DTSc DHC mult.
Rector of University of Ruse "Angel Kanchev"
Tel.: 082-888 240,
E-mail: hbeloev@uni-ruse.bg

Dau The Nhu, PhD
Animal Husbandry mechanization, Vietnam
Institute of Agricultural Engineering & Post-Harvest Technology
+844 912 293 006,
E-mail: dauthenhu@yahoo.com

Abstract: *Banana is a tropical fruit tree grown in many countries of the world with the largest areas of cultivation. It is a very potential agricultural product for both domestic and export markets. In Vietnam, however, the productivity of banana production is still not high, compared to that of other major markets, due to high labor costs and low labor productivity. One reason for this is low level of mechanization for banana cultivation, including the mechanization of drilling holes for planting. Drilling holes for banana planting in Viet Nam is still done manually or with low-productivity machines. Existing hole-drilling machines around the world, especially in Vietnam, are the ones with intermittent operation, resulting in low productivity. Therefore, it is necessary to create a new principle of continuous operation of diggers in order to increase productivity of drilling and to facilitate the work of operators.*

Keywords: *banana; diggers; drilling holes; continuous operation*

REFERENCES

Gradysky Y. O., Litovka, S. V. Construction of digging and milling machines and tools. Diggers and platformers. Methodical recommendations and tasks for independent work of full-time and part-time students of technical specialties. - H.: KhNTUSG, 28 p. 2013. (***Оригинално заглавие:*** *Градиський Ю. О., Літовка С. В. Конструкція викопочних і фрезерних машини і знарядь. Ямокопачі і площадкоутворювачі. Методичні рекомендації та завдання щодо виконання самостійної роботи студентів денної та заочної форми навчання технічних спеціальностей. - Х.: ХНТУСГ,. 28 с. 2013.)*

Le Tan Quynh. 2006. Research, select technology and mechanized equipment system for the stages of tillage, planting, care of planted forests and logging. State-level thesis summary report, KC-07-26, Forestry University.(*Lê Tấn Quỳnh (2006), Nghiên cứu lựa chọn công nghệ và hệ thống thiết bị cơ giới hóa các khâu làm đất, trồng, chăm sóc rừng trồng và khai thác gỗ, Báo cáo tổng kết đề tài cấp Nhà nước, KC-07-26, Trường Đại học Lâm nghiệp.*)

https://sites.google.com/site/tailieukn/trong-trot/ky-thuat-trong-chuoi

[1] Докладът е представен на онлайн сесията на секция „Земеделска техника и технологии, аграрни науки и ветеринарна медицина" на 29 октомври 2021 г. и номиниран за публикуване в Compiled edition of Reports Awarded with "Best Paper" Cristal Prize'21, as a hard copy (ISBN 978-954-712-864-4) and on-line on the Conference Website (http://conf.uni-ruse.bg/bg/?cmd=dPage&pid=bestPapers).