



County of New York  
State of New York

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To whom it may concern:

This is to certify that the attached translation from Russian into English is an accurate representation of the documents received by this office.

The documents are designated as:


- **SPECIFICATION OF INVENTION - 835359 - HAY MAKING MACHINE**

Mohammed H. Masab, Project Manager in this company, attests to the following:

“To the best of my knowledge, the aforementioned documents are a true, full and accurate translation of the specified documents.”

Signature of Mohammed H. Masab

H&S Mfg. Co., Inc.  
v. Oxbo Int'l Co.  
IPR2016-00950  
H&S Mfg Co. Inc.  
Exhibit 1012

<p>The Union of Soviet Socialist Republics</p>  <p>The USSR State Committee for Inventions and Discoveries</p>	<p style="text-align: center;"><b>SPECIFICATION OF INVENTION</b> <b>FOR AUTHOR'S CERTIFICATE</b></p> <p>(61) Additional to Author's Certificate -</p> <p>(22) Applied <b>08.08.79</b> (21) <b>2808371/30-15</b> with attached application -</p> <p>(23) Priority -</p> <p>(43) Published <b>06.07.81</b>. Bulletin # 21</p> <p>(45) Specification publication date: 06.26.81</p>	<p>(11) <b>835359</b></p> <p>(51) In. Cl.3 A 01 D 84/00</p> <p>(53) UDC <b>631.353.2 (088.8)</b></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>[illegible stamp]</p> </div>
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(72) Authors of Invention V.G. Zhavoronkin, V.G. Yermachkov, and N.M. Zhurov

(71) Applicant The Frunze Forage Equipment Design and Technology Institute

### (54) HAY MAKING MACHINE

The invention is related to agricultural machine engineering, specifically to a design for hay making machines.

5 A hay making machine is known that includes a pickup device and a transverse swathing conveyor located behind the latter [1].

The disadvantage of the known machine is the fact that it cannot be used for swath inverting and fluffing, or for swathing without relocation.

The goal of this invention is a universalization of the machine by using it for crop mass inverting and fluffing.

10 The said purpose is achieved due to the fact that the swathing conveyor is equipped with a pivoted wind deflector installed with the possibility of being turned and fixed in vertical and inclined positions, and with a helical moldboard.

15 Figure 1 shows the hay making machine, made of two sections, mounted on a tractor, while raking one hay swath in the center; Figure 2 shows an A-A cross-section of Figure 1; Figure 3 shows the same while raking two hay swaths; Figure 4 shows the same while raking one side swath; Figure 5 shows the same upon turning of two swaths; Figure 6 shows the helical moldboard of the swathing conveyor; and Figure 7 shows the hay making machine during swath inverting.

20 The hitch 2 of the hay making machine, equipped with drive 3, is mounted on tractor 1. The hitch 2 is pin-jointed with symmetrically located frames 4 and 5 of the two sections, which are additionally connected with the tractor 1 by braces 6 and 7 and rest on self-castering supporting wheels 8. On the frames 4 and 5 are installed the pickup devices 9 made in the form of longitudinal conveyors with teeth 10. Behind the pickup devices 9 are installed transverse swathing conveyors 11 and 12, connected with the drive 3 and equipped with wind reflectors 13 and 14, which are pivoted with the possibility of turning and fixing in vertical and inclined positions.

On the ends of the transferred swathing conveyors 11 and 12 are installed helical moldboards 15 for swath turning.

Behind the hinge 2 are installed tine wheels 16 for inverting the middle part of the swath, or an additional intermediate short conveyor 17 with the wind reflector 18.

- 5 The pickup devices 9 are equipped with shoes 19, and the frames 4 and 5 are equipped with, spring-located pressure fingers 20 and flexible scrapes 21.

The hay making machine operates as follows.

When the tractor 1 moves along the swath, the teeth of the pickup device 9 send the hay to the transverse swathing conveyors 11 and 12 using the spring-loaded pressure fingers 20 and flexible scrapers 21.

- 10 During the swath inverting and fluffing, the speed of the pickup device 9 increases by 45%, the wind reflectors 13 and 14 are switched to an inclined position, and the tine wheels 16 are installed behind the hinge 2.

- 15 Due to this design of the hay making machine, its universality increases, making it possible to use the machine for hay raking into one or two swaths, their turning, and for swath inverting and fluffing without making a windrower.

### Claims

- 20 1. The hay making machine which includes a pickup device and a transverse swathing conveyor located behind the latter, characterized by the fact that in order to universalize the machine by using it for crop mass inverting and fluffing, the swathing conveyor is equipped with a pivoted wind reflector installed with the possibility of turning and fixing in vertical and inclined positions.

2. The hay making machine according to item 1 is distinguished by the fact that the swathing conveyor is equipped with a helical moldboard.

Sources of information considered during expert examination:

- 25 1. FRG Patent # 1757750, Cl. A 01 D 84/00, 1973 (prototype).

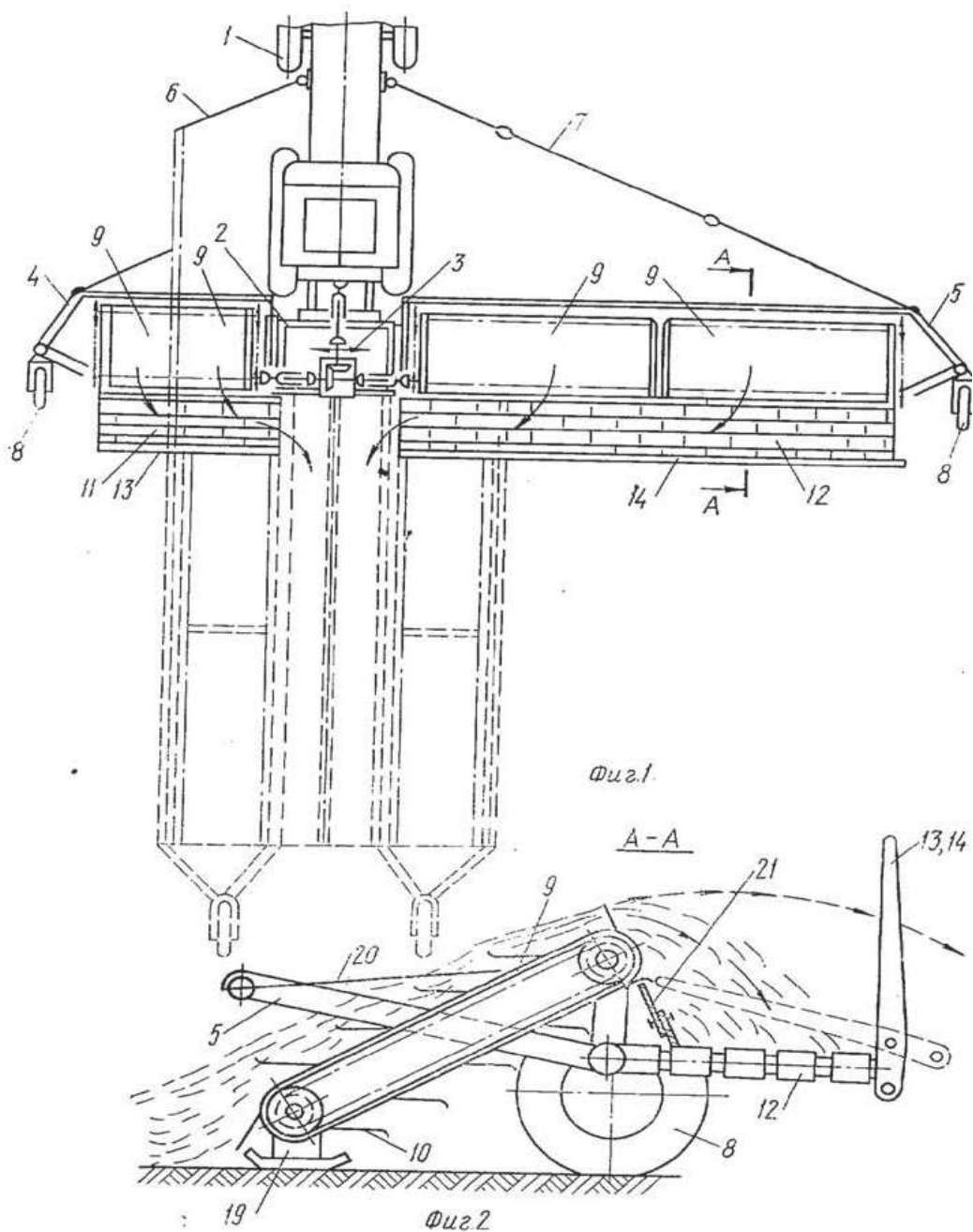
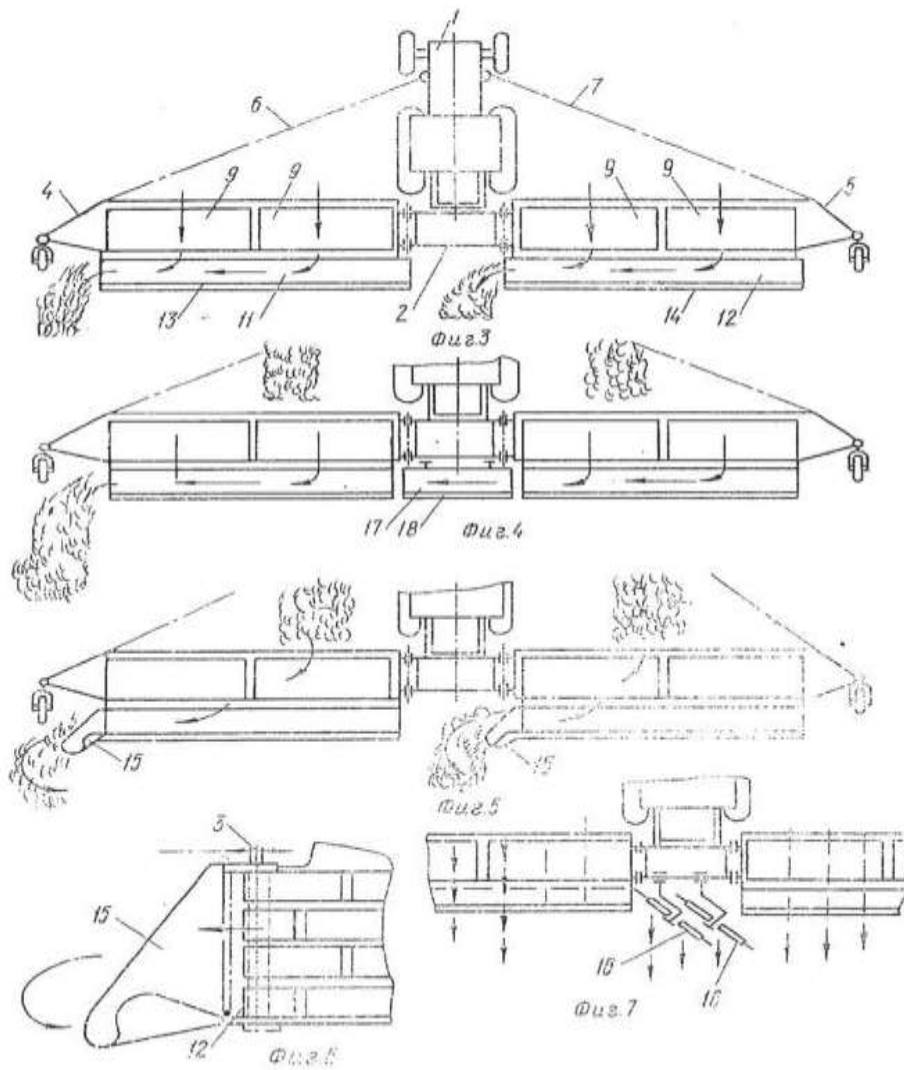


Figure 2



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G. Zhuravleva, drafter  
N. Timonina, editor

A. Kamyshnikova, technical editor

I. Osinovskaya, proofreader

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