SURFACE VEHICLE STANDARD

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Felling Head Terminology and Nomenclature

RATIONALE

This standard has been revised to replace the referenced standard, as the previously referenced standard was cancelled.

J1272 has been reaffirmed to comply with the SAE Five-Year Review policy.

A reaffirmed status is given to technical reports that have been reviewed by the technical committee and deemed to be current with no need for immediate revision. No changes have been made to this document as a result of this review.

1. SCOPE

This SAE Standard is intended to describe the basic types of felling heads, including those with bunching capabilities, that are attachments to a self-propelled machine. Only the major components that are necessary to describe the functions of the felling head, and to apply the principles of the standard are included. Illustrations used are not intended to include all existing felling heads or to describe any particular manufacturer's variation.

1.1 Purpose

The purpose of this document is to set forth accepted definitions for functions of tree felling heads and to classify and establish nomenclature for major components and parts peculiar to these machines.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 ISO Publications

Copies of these documents are available at http://webstore.ansi.org/.

ISO 6814 Machinery for Forestry - Mobile and Self-Propelled Machinery - Terms, Definitions and Classification

3. DEFINITIONS

3.1 ACCUMULATING

The process of collecting and holding multiple trees or stems for subsequent bunching.

3.2 BUNCHING

The forestry harvesting operation of gathering and arranging trees or parts of trees in bunches. Refer to ISO 6814.

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3.3 CARRIAGE

A movable frame driven by suitable means to advance the saw disc through the tree and retract the saw after the tree is cut.

3.4 DRIVE TO TREE

A tree felling method in which the entire machine is maneuvered to position the felling head at the tree to be felled.

3.5 FELLING

The forestry harvesting operation of severing trees from the stump. Refer to ISO 6814.

3.6 FELLING HEAD

A mechanism carried by a self-propelled machine for felling trees. The felling head may contain provisions for accumulating and/or bunching

4. CLASSIFICATIONS

4.1 Shear Felling Heads

4.1.1 Pivoted Single Blade

Felling is by single shear blade that travels in an arc about an axis perpendicular to the plane of cutting and works against an anvil for cutting (Figure 1).

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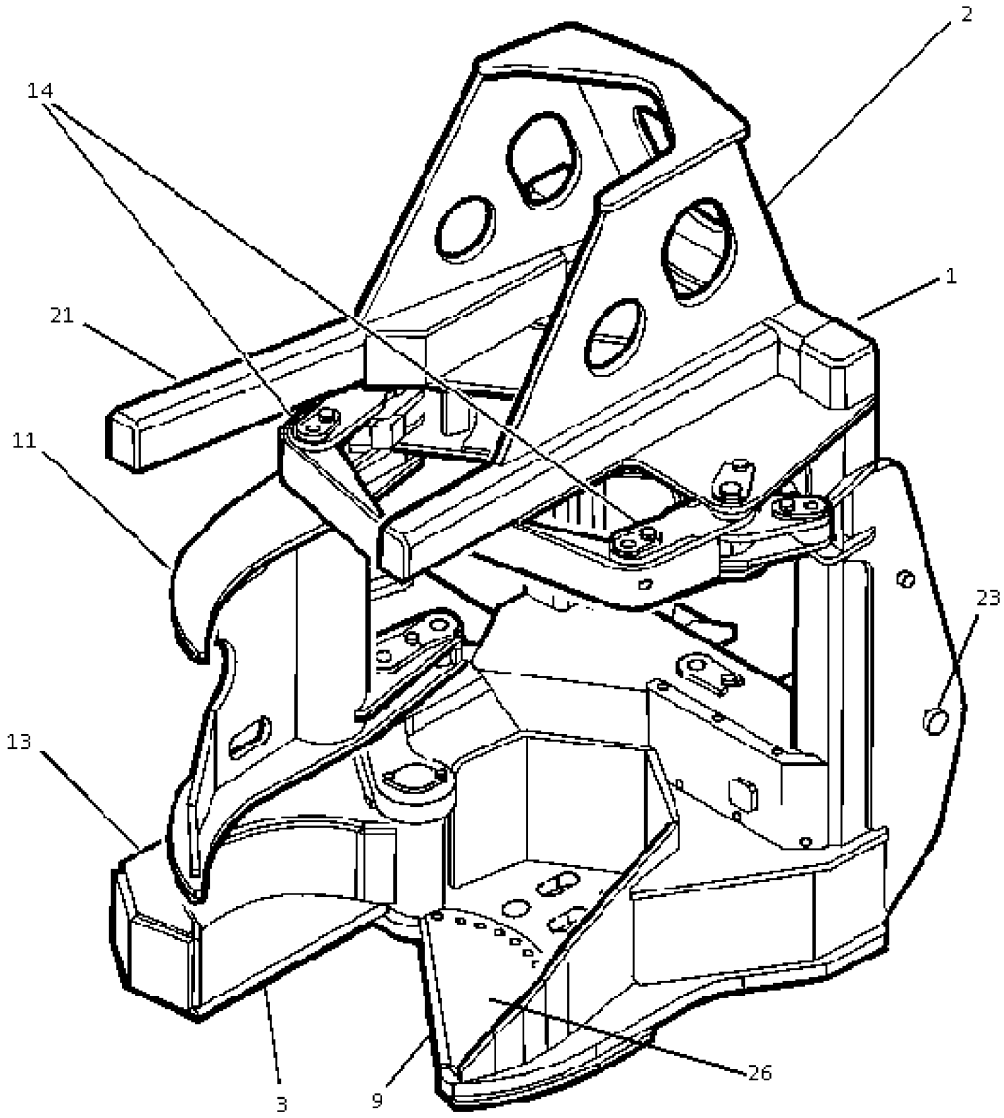


Figure 1 - Pivoted single blade

4.1.2 Pivoted Double Blades

Felling is by two shear blades that travel in arcs of planar motion about one or more axes perpendicular to the plane of cutting. The blades work toward each other (Figure 2).

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