

Felling Head Terminology and Nomenclature — SAE J1272 OCT79

**SAE Recommended Practice
Approved October 1979**

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FELLING HEAD TERMINOLOGY AND NOMENCLATURE—SAE J1272 OCT79

Report of the Off-Road Machinery Technical Committee, approved October 1979. Rationale statement available.

1. Purpose—The purpose of this recommended practice 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 mechanisms.

2. Scope—The recommended practice 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 recommended practice are included. Illustrations used are not intended to include all existing felling heads or to describe any particular manufacturer's variation.

3. Definitions

3.1 Felling—Cutting off or uprooting standing trees, causing the tree to fall under controlled or uncontrolled conditions.

3.2 Bunching—Gathering and arranging trees or parts of trees in piles.

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

3.4 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 a single shear blade that travels in an arc about an axis perpendicular to the plane of cutting and works against an anvil for cutting (Fig. 1).

4.1.2 Single Guillotine Blade—Felling is by a single sliding shear blade that works against a fixed anvil or tree clamping device (Fig. 2).

4.1.3 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 (Fig. 3).

4.1.4 Pivoted Curved Blades—Felling is by two cylindrical or cupped blade sections that travel in arcs about one or more axes that are not perpendicular to the plane of cutting. The blades work toward each other (Fig. 4).

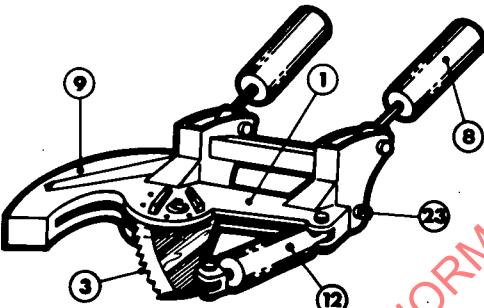


FIG. 1—PIVOTED SINGLE BLADE

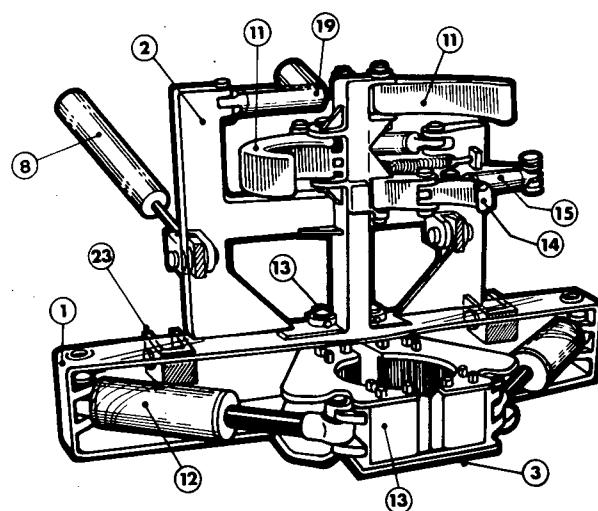


FIG. 3—PIVOTED DOUBLE BLADES

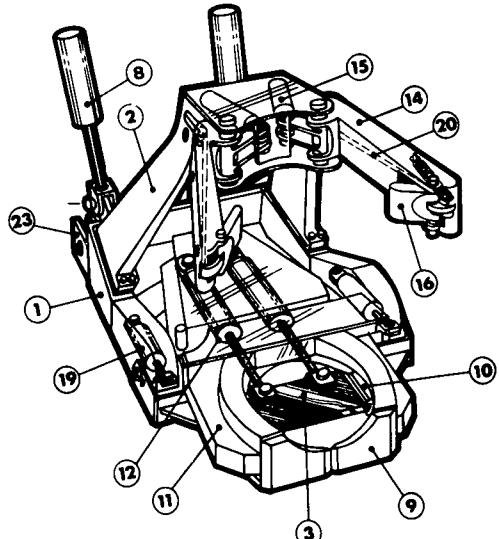


FIG. 2—SINGLE GUILLOTINE BLADE