



US00D348261S

United States Patent [19]
Aghachi et al.

[11] **Patent Number: Des. 348,261**
[45] **Date of Patent: ** Jun. 28, 1994**

[54] **CLEANING CARTRIDGE FOR COMPUTER VIDEO GAME**

[75] **Inventors: Abraham Aghachi**, 11724 Santa Monica Blvd., W. Los Angeles, Calif. 90024; **Vincent A. Palmieri**, San Bernardino, Calif.

[73] **Assignee: Abraham Aghachi**, West Los Angeles, Calif.

[**] **Term: 14 Years**

[21] **Appl. No.: 656,622**

[22] **Filed: Feb. 19, 1991**

[52] **U.S. Cl. D14/121; D14/114**

[58] **Field of Search 242/55.19 A, 197-200; 273/DIG. 28, 85.6; D14/114, 120-122, 299**

[56] **References Cited**

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- D. 274,905 7/1984 Rainey et al. D14/121
- D. 280,413 9/1985 Grimes D14/114
- D. 315,903 4/1991 Nakauma D14/121
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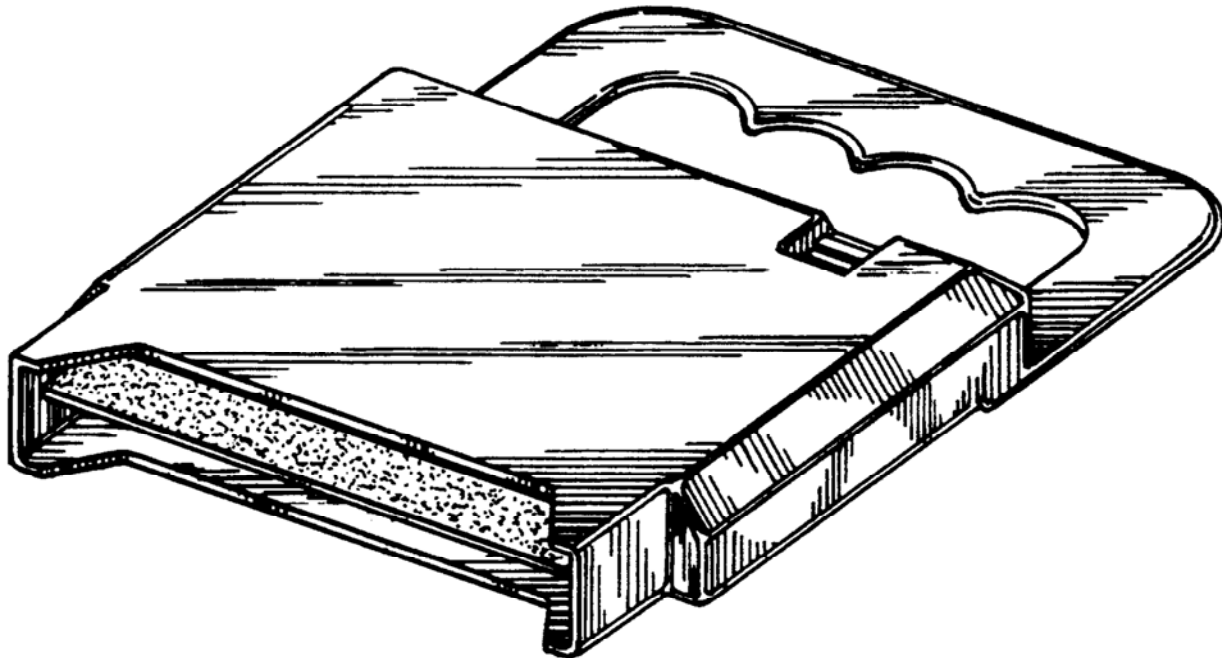
Primary Examiner—Theodore M. Shooman
Attorney, Agent, or Firm—Boniard I. Brown

[57] **CLAIM**

The ornamental design for a cleaning cartridge for computer video game, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a cleaning cartridge for computer video game, showing our new design;
 FIG. 2 is a top plan view thereof;
 FIG. 3 is a side elevational view thereof;
 FIG. 4 is a bottom view thereof;
 FIG. 5 is a side elevational view of the side opposite that of FIG. 3;
 FIG. 6 is a rear view thereof; and,
 FIG. 7 is a front view thereof.



[54] **CLEANING CARTRIDGE FOR COMPUTER VIDEO GAME**

Primary Examiner—Theodore M. Shooman
Attorney, Agent, or Firm—Boniard I. Brown

[75] **Inventors:** Abraham Aghachi, 11724 Santa Monica Blvd., W. Los Angeles, Calif. 90024; Vincent A. Palmieri, San Bernardino, Calif.

[57] **CLAIM**

The ornamental design for a cleaning cartridge for computer video game, as shown and described.

[73] **Assignee:** Abraham Aghachi, West Los Angeles, Calif.

DESCRIPTION

[**] **Term:** 14 Years

FIG. 1 is a perspective view of a cleaning cartridge for computer video game, showing our new design;

[21] **Appl. No.:** 25,082

FIG. 2 is a top plan view thereof;

[22] **Filed:** Jun. 27, 1994

FIG. 3 is a side elevational view thereof;

FIG. 4 is a bottom view thereof;

Related U.S. Application Data

[62] Division of Ser. No. 656,622, Feb. 19, 1991, Pat. No. Des. 348,261.

[52] **U.S. Cl.** D14/121; D14/114

FIG. 5 is a side elevational view of the side opposite that of FIG. 3;

[58] **Field of Search** D14/114, 120-122, D14/299; 242/55.19 A, 197-200; 273/DIG. 28, 85.6

FIG. 6 is a rear view thereof;

FIG. 7 is a front view thereof;

FIG. 8 is a perspective view of a cleaning cartridge for computer video game, showing a modified form thereof;

FIG. 9 is a top plan view of the modified design of FIG. 8;

FIG. 10 is a side elevational view of the modified design of FIG. 8;

FIG. 11 is a bottom view of the modified design of FIG. 8

FIG. 12 is a side elevational view of the modified design of FIG. 8 of the side opposite that of FIG. 10;

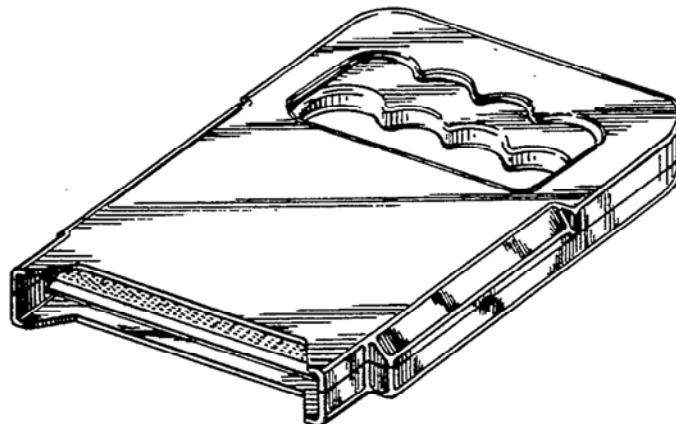
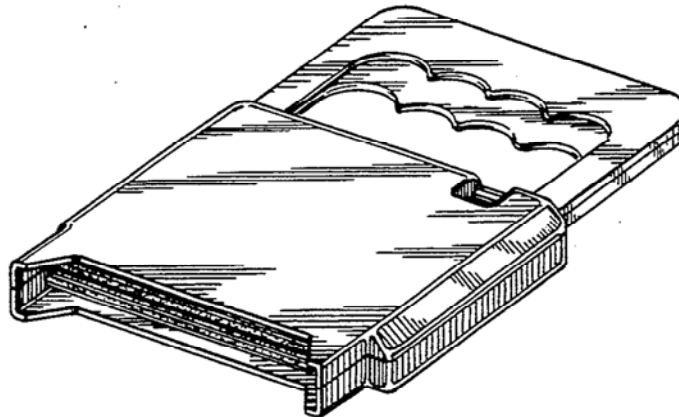
FIG. 13 is a rear view of the modified design of FIG. 8; and,

FIG. 14 is a front view of the modified design of FIG. 8.

[56] **References Cited**

U.S. PATENT DOCUMENTS

- D. 274,905 7/1984 Rainey et al. D14/121
- D. 280,413 9/1985 Grimes D14/114
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[54] ROTARY NYLON LINE VEGETATION CUTTER

[76] Inventors: Vincent A. Palmieri; John P. Palmieri, both of 3745 El Camino Dr., San Bernardino, Calif. 92410

[21] Appl. No.: 925,045

[22] Filed: Jul. 17, 1978

[51] Int. Cl.² A01D 55/18; A01G 3/06

[52] U.S. Cl. 30/347; 56/12.7

[58] Field of Search 30/276, 347; 56/12.7; 242/96, 117, 84.8

[56] References Cited

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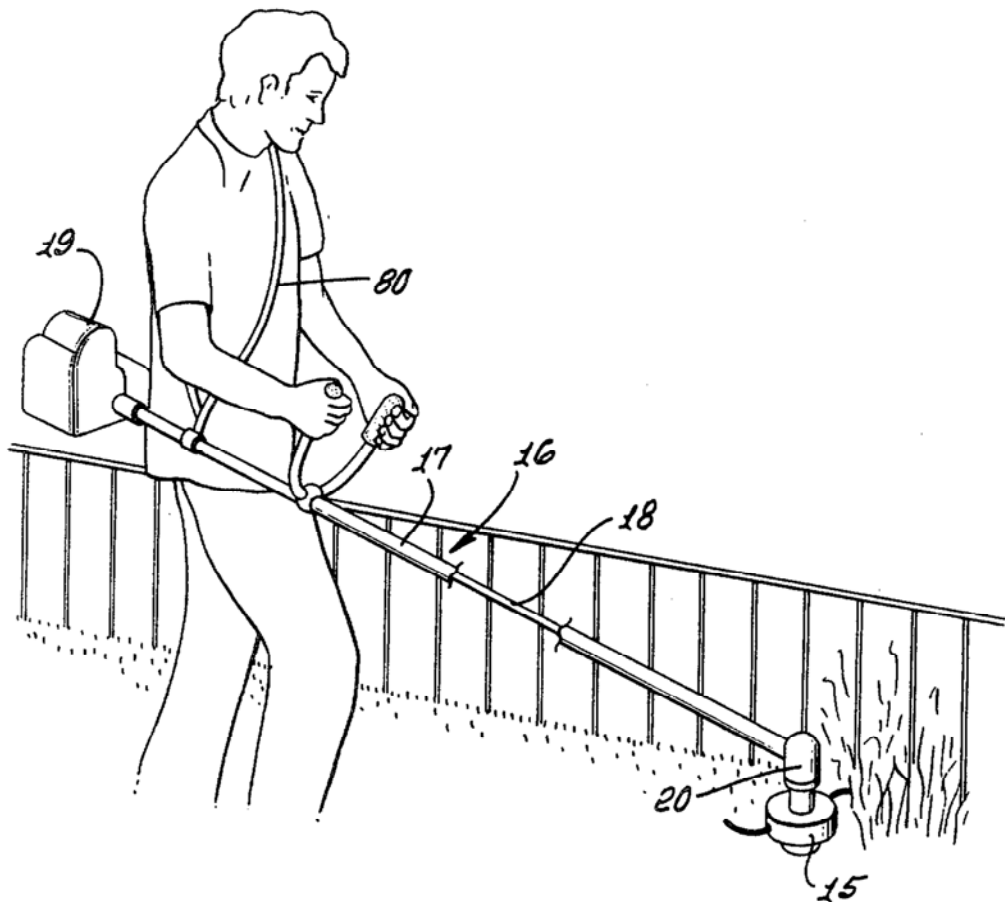
Primary Examiner—Jimmy C. Peters
Attorney, Agent, or Firm—Dana E. Keech

[57] ABSTRACT

A rotary cutter head mounted on the end of a handle to power rotate at high speed one or more centrifugally whirled free ends of a reserve of nylon line wound on a spool co-axially pivotally mounted within the head.

A co-axially spring biased indexer is subject to inertia applied through the handle while the device is running to effect the feeding of precise increments of line from the spool to the free line ends. The indexer is automatically self-inhibiting when the line ends reach a predetermined optimum length of approximately eight inches and continues to be self-inhibiting until the line ends wear down, in use, to less than a predetermined minimum length of approximately five inches.

3 Claims, 18 Drawing Figures



[54] ROTARY NYLON LINE VEGETATION CUTTER

[76] Inventors: Vincent A. Palmieri; John P. Palmieri, both of 3745 El Camino Dr., San Bernardino, Calif. 92410

[21] Appl. No.: 53,101

[22] Filed: Jun. 28, 1979

Related U.S. Application Data

[62] Division of Ser. No. 925,045, Jul. 17, 1978, Pat. No. 4,185,381.

[51] Int. Cl.³ A01D 50/00

[52] U.S. Cl. 30/276; 56/12.7

[58] Field of Search 30/276, 347; 56/127

[56] References Cited

U.S. PATENT DOCUMENTS

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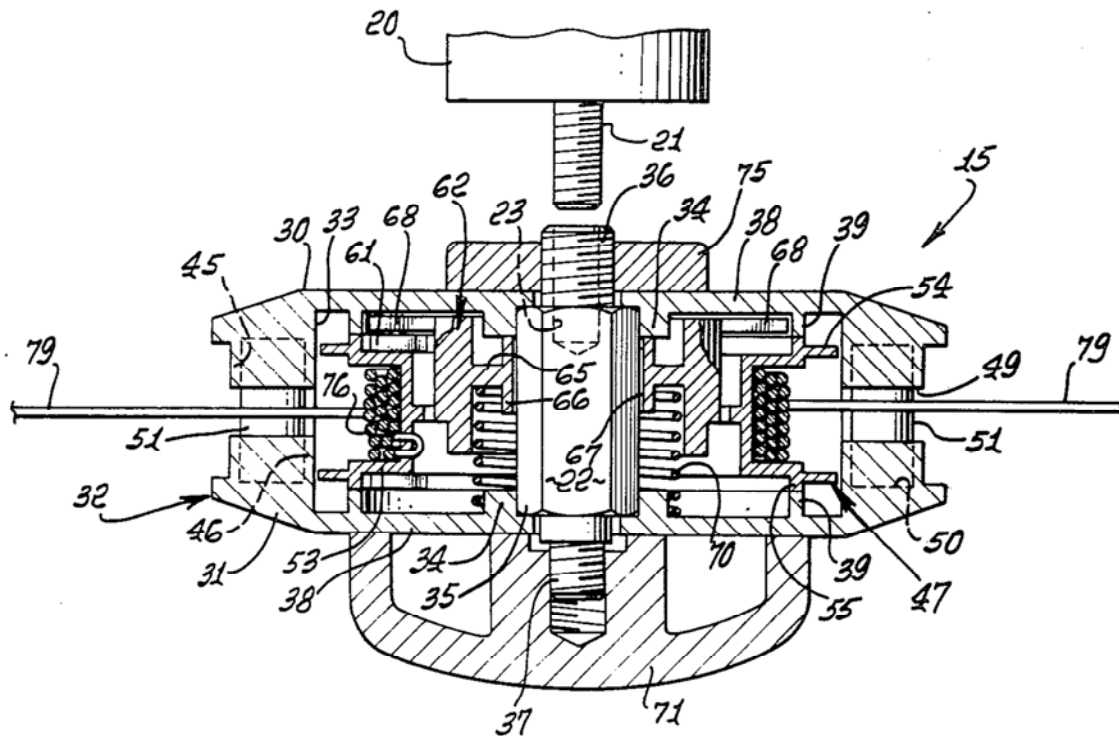
Primary Examiner—Jimmy C. Peters
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[57] ABSTRACT

A rotary cutter head mounted on the end of a handle to power rotate at high speed one or more centrifugally whirled free ends of a reserve of nylon line wound on a spool co-axially pivotally mounted within the head.

A co-axially spring biased indexer is subject to inertia applied through the handle while the device is running to effect the feeding of precise increments of line from the spool to the free line ends. The indexer is automatically self-inhibiting when the line ends reach a predetermined optimum length of approximately eight inches and continues to be self-inhibiting until the line ends wear down, in use, to less than a predetermined minimum length of approximately five inches.

8 Claims, 18 Drawing Figures



[54] CONVERTIBLE, AUTOMATIC TO MANUAL, NYLON LINE VEGETATION CUTTER

[76] Inventors: Vincent Palmieri; John P. Palmieri, both of 3745 El Camino Dr., San Bernardino, Calif. 92410

[21] Appl. No.: 16,562

[22] Filed: Mar. 1, 1979

[51] Int. Cl.² A01G 3/06

[52] U.S. Cl. 30/276; 56/12.7

[58] Field of Search 56/12.7; 30/276, 347

[56] References Cited

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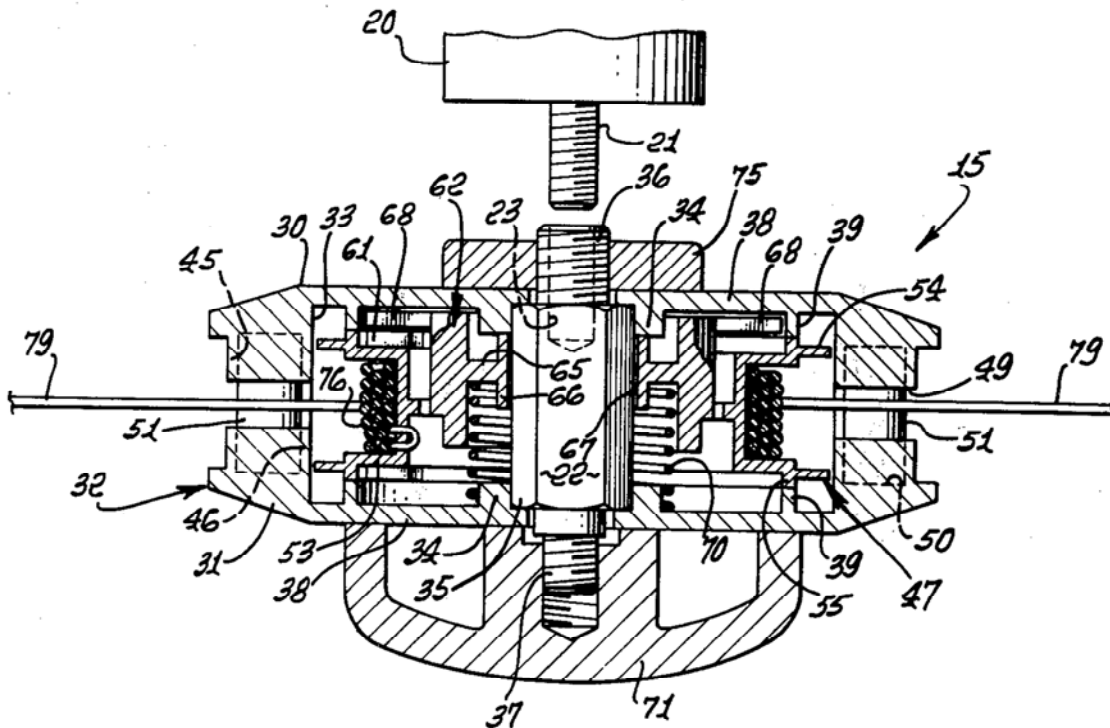
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Primary Examiner—Jimmy C. Peters
Attorney, Agent, or Firm—Dana E. Keech

[57] ABSTRACT

A line supply spool rotatably confined co-axially within a thin housing shell having a splined mounting on a polygonal arbor through which said housing shell is supported at the lower end of a manually held engine powered handle while the shell is being spun at a high speed on a vertical axis. Free line ends are progressively fed peripherally from the spool through equally spaced windows provided in the housing shell by controlled rotation of the spool relative to the housing shell, the control of the rotation of the spool being optionally effected manually while the tool is shut down or automatically while the tool is spinning, the election being made by a minor selective shifting of a few parts, this election being readily reversed, whenever desired.

2 Claims, 21 Drawing Figures



[54] ROTARY NYLON LINE VEGETATION CUTTER

[76] Inventors: Vincent A. Palmieri; John P. Palmieri, both of 3745 El Camino Dr., San Bernardino, Calif. 92410

[21] Appl. No.: 53,101

[22] Filed: Jun. 28, 1979

Related U.S. Application Data

[62] Division of Ser. No. 925,045, Jul. 17, 1978, Pat. No. 4,185,381.

[51] Int. Cl.³ A01D 50/00

[52] U.S. Cl. 30/276; 56/12.7

[58] Field of Search 30/276, 347; 56/127

[56] References Cited

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4,161,820 7/1979 Moore 30/276

4,167,812 9/1979 Moore 30/276
4,169,311 10/1979 Evenson 30/276

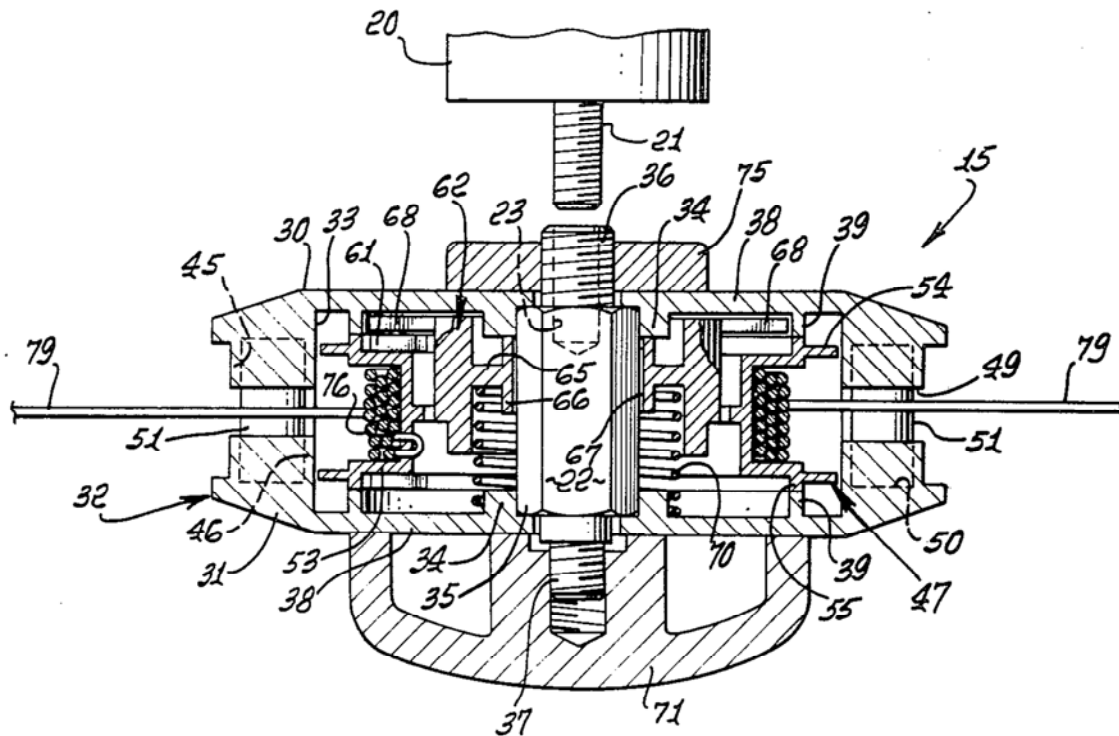
Primary Examiner—Jimmy C. Peters
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[57] ABSTRACT

A rotary cutter head mounted on the end of a handle to power rotate at high speed one or more centrifugally whirled free ends of a reserve of nylon line wound on a spool co-axially pivotally mounted within the head.

A co-axially spring biased indexer is subject to inertia applied through the handle while the device is running to effect the feeding of precise increments of line from the spool to the free line ends. The indexer is automatically self-inhibiting when the line ends reach a predetermined optimum length of approximately eight inches and continues to be self-inhibiting until the line ends wear down, in use, to less than a predetermined minimum length of approximately five inches.

8 Claims, 18 Drawing Figures



[54] **ROTARY NYLON LINE VEGETATION CUTTER**

[76] Inventors: **Vincent A. Palmieri; John P. Palmieri**, both of 3745 El Camino Dr., San Bernardino, Calif. 92410

[21] Appl. No.: **52,781**

[22] Filed: **Jun. 28, 1979**

Related U.S. Application Data

[62] Division of Ser. No. 925,045, Jul. 17, 1978, Pat. No. 4,185,381.

[51] Int. Cl.³ **A01D 55/00**

[52] U.S. Cl. **30/347**

[58] Field of Search **30/276, 347; 56/12.7**

[56] **References Cited**

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Primary Examiner—Jimmy C. Peters
Attorney, Agent, or Firm—Dana E. Keech

[57] **ABSTRACT**

A rotary cutter head mounted on the end of a handle to power rotate at high speed one or more centrifugally whirled free ends of a reserve of nylon line wound on a spool co-axially pivotally mounted within the head.

A co-axially spring biased indexer is subject to inertia applied through the handle while the device is running to effect the feeding of precise increments of line from the spool to the free line ends. The indexer is automatically self-inhibiting when the line ends reach a predetermined optimum length of approximately eight inches and continues to be self-inhibiting until the line ends wear down, in use, to less than a predetermined minimum length of approximately five inches.

2 Claims, 18 Drawing Figures

