

June 28, 1966

G. M. DICK
BARKING DRUM

3,258,043

Filed June 2, 1964

2 Sheets-Sheet 1

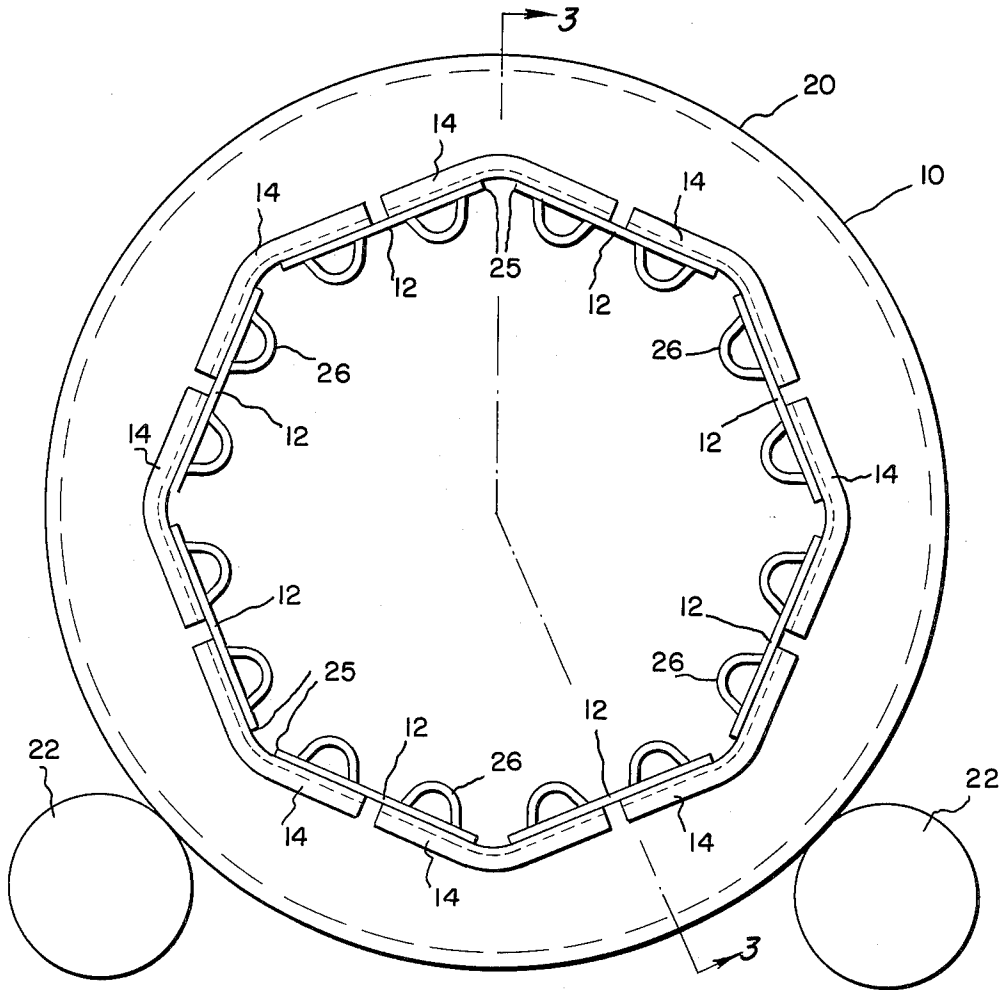


FIG. 1

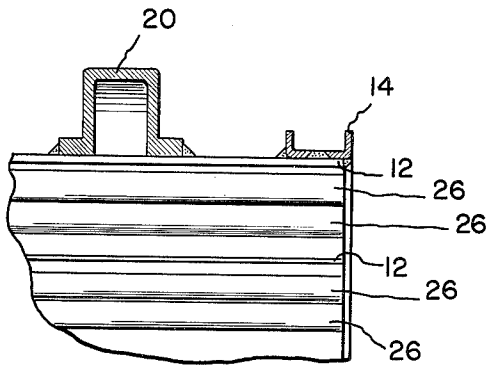


FIG. 2

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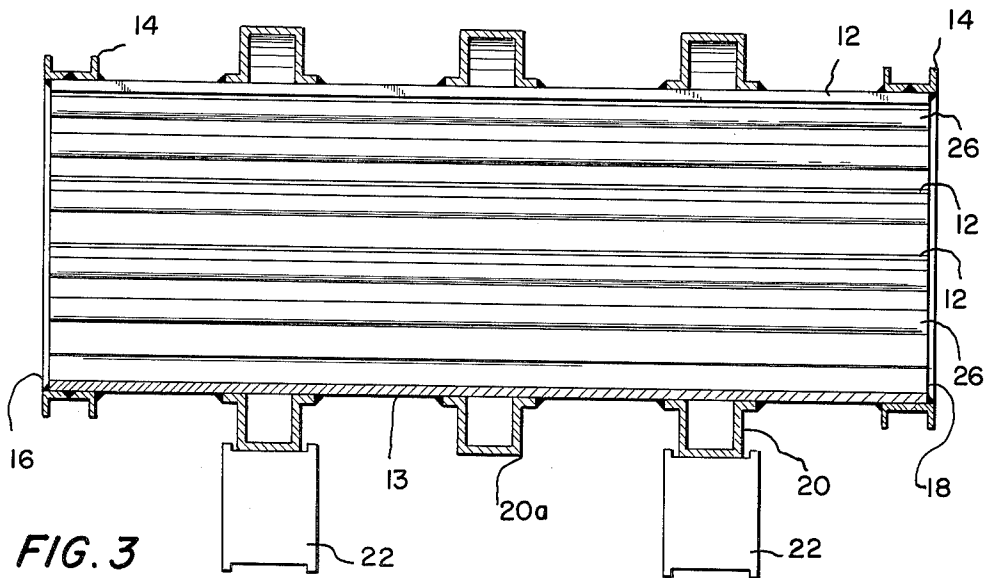


FIG. 3

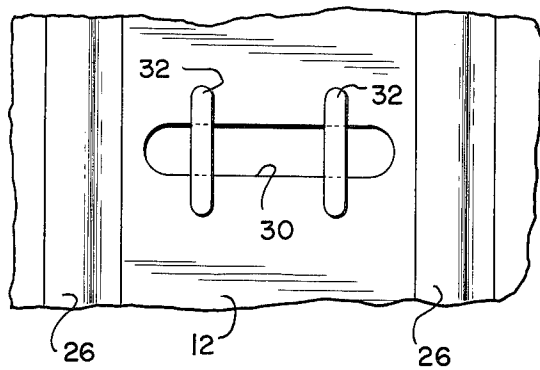


FIG. 5

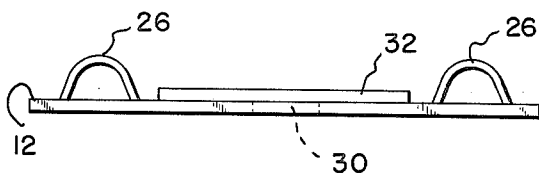


FIG. 4

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3,258,043

BARKING DRUM

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 10 Claims. (Cl. 144—208)

This invention relates to barking drums and more particularly to an improved barking drum.

Heretofore, for many years, barking drums have been constructed of cylindrical plates fitted inside circular rings for support. The forming of the cylindrical plates represents an expensive operation. In addition the various parts, such as the cylindrical plates and rings, were difficult to fit together because of the size and irregularities in the forming operation. In addition, it was necessary to ship the barking drum in pieces because of the large size of the drum which resulted in a great deal of the welding being done in the field. Field welding presents certain problems which the present invention will greatly minimize.

It is the general object of the present invention to avoid and overcome the foregoing and other difficulties of and objections to prior art practices by the provision of a simply constructed barking drum.

A further object of the present invention is to provide a stronger longer lasting barking drum.

Another object of the present invention is to provide a barking drum that will facilitate repair.

The aforesaid objects of the present invention, and other objects which will become apparent as the description proceeds, are achieved by providing a barking drum for debarking logs, which barking drum has at least three flat plates. Channels are provided to connect the plates to form a polygonal longitudinal shell for receiving logs. In addition, means are provided for rotating the shell to debark the logs.

For a better understanding of the present invention reference should be had to the accompanying drawings, wherein like numerals of reference indicate similar parts throughout the several views and wherein:

FIG. 1 is a vertical cross-sectional view of the improved barking drum of the present invention;

FIG. 2 is a detailed view illustrating a drum plate with tires and channel welded thereon;

FIG. 3 is a longitudinal cross-sectional view of FIG. 1 taken along the lines 3—3 of FIG. 1 in the direction of the arrows;

FIG. 4 is an elevational view illustrating a barking drum plate with bark slots;

FIG. 5 is a plan view as viewed from the top of FIG. 4.

With specific reference to the form of the present invention illustrated in the drawings, and referring particularly to FIG. 1, a barking drum is indicated generally by the reference numeral 10. A series of flat plates 12, such as metallic plates or plastic plates are symmetrically arranged to form the barking drum shell 13 as shown in FIG. 3.

For the sake of simplicity and by way of example only, the barking drum 10 is shown with eight plates 12. It will be understood that any number greater than three of plates 12 can be used.

A series of channels 14 disposed outside of the plates 12 at the extreme ends 16 and 18 of the drum 10 serve to connect the plates 12 together as shown in FIG. 3. The channels 14 can be connected to the plates 12 by any number of methods, such as by welding. The channels 14 constitute the heads of the drum at 16 and 18.

In order to provide a drive means for the drum 10, a series of driven tires 20 are disposed around the drum 10.

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The tires are driven by any number of methods, such as frictionally driven by a series of rollers 22 driving the tires 20. The rollers 22 can in turn be driven by any number of drive means, such as by a motor and shaft assembly (not shown).

The tires 20 also serve as a circumferential support means for the drum 10. Further additional support tires 20a can be provided along the length of the drum 10 to provide further circumferential support for the drum 10.

In order to lift the logs in the drum 10 a lifting means, such as the plate corner connections 25 or a series of staves 26 are disposed on the plates 12. The staves 26 can be connected to the plates 12 by any number of methods, such as by welding.

In order to remove the bark from the drum 10, a series of bark slots 30 are cut in the plates 12 between the staves 26 as shown in FIGS. 4 and 5. The slots are of such length so that they will terminate two or three inches from each of the circular members such as the tires 20. In order to prevent cracking of the plate 12 at the slots 30, due to the stresses normally localized at the ends of the slots 30, reinforcing bars 32 are welded on each plate 12 near the terminal points of each of the slots 30 as shown in FIGS. 4 and 5. It will be therefore understood that the stresses localized at the ends of the slots 30 will be taken up in the reinforcing bars 32 thus eliminating to a great extent cracking of the plate 12.

It will be understood by those skilled in the art that the barking drum of the present invention will lend itself to ease of repair because if a section of the drum cracks or otherwise fails, it will be a simple matter to weld a flat repair in the place of the plate portion that has failed.

It will be recognized by those skilled in the art that the objects of the present invention have been achieved by providing a strong but simply constructed barking drum that will allow ease of repair.

While in accordance with the patent statutes a preferred embodiment of the present invention has been illustrated and described in detail, it is to be particularly understood that the invention is not limited thereto or thereby.

I claim:

1. A barking drum for debarking logs comprising:
 - (a) a series of plate means;
 - (b) means for interconnecting said plate means to form a polygonal longitudinal shell for receiving said logs; and
 - (c) means for rotating said shell to debark said logs.
2. A barking drum for debarking logs comprising:
 - (a) at least three flat plates;
 - (b) means for connecting said flat plates to form a polygonal longitudinal shell for receiving said logs; and
 - (c) means for rotating said shell to debark said logs.
3. A barking drum for debarking logs comprising:
 - (a) at least three flat plates;
 - (b) channels connecting the flat plates to form a polygonal longitudinal shell for receiving said logs; and
 - (c) means for rotating said shell to debark said logs.
4. A barking drum for debarking logs comprising:
 - (a) at least three flat plates;
 - (b) channels connecting the flat plates to form a polygonal longitudinal shell for receiving said logs;
 - (c) means for rotating said shell to debark said logs; and
 - (d) means along the length of shell for removing said bark.
5. A barking drum for debarking logs comprising:
 - (a) at least three flat plates;
 - (b) channels connecting the flat plates to form a polygonal longitudinal shell for receiving said logs;
 - (c) means for rotating said shell to debark said logs; and

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(d) said flat plates being provided with slots along their longitudinal length for removing said bark.

6. A barking drum for debarking logs comprising:

- (a) at least three flat plates;
- (b) channels connecting the flat plates to form a poly- 5
onal longitudinal shell for receiving said logs;
- (c) means for rotating said shell to debark said logs;
- (d) said flat plates being provided with slots along their longitudinal length for removing said bark; and
- (e) means for preventing stress failure of said shell at 10
said slots.

7. A barking drum according to claim 1, wherein said interconnecting means comprises a plurality of angled, flat plates and said angled, flat plates each connect adja-
cent ones of said plate means with each other.

8. A barking drum according to claim 7, wherein said angled, flat plates are each connected adjacent their op-

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posing ends to adjacent ones of said plate means such that said angled, flat plates join said plate means into a unitary shell of polygonal cross section.

9. A barking drum according to claim 8, wherein said angled, flat plates connect adjacent ones of said plate means in spaced relationship to provide a space longitudinally between adjacent ones of said plate means.

10. A barking drum according to claim 9, wherein said angled, flat plates are disposed adjacent the opposing longitudinal ends of said barking drum and connect said plate means with said barking drum.

No references cited.

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