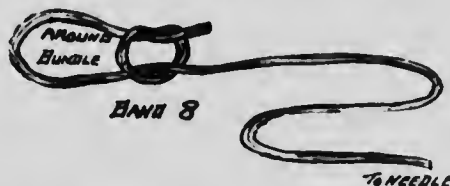


**Choking Down.**—Sometimes in heavy, tangled grain, and often in flax, the head cannot discharge a bundle and the whole machine is stopped by "choking down." The remedy is found in adjusting the head to tie a smaller, looser bundle, and in loosening the tension on the compressor spring. An old or broken knotter may fall at the critical moment, therefore, order your repairs early.

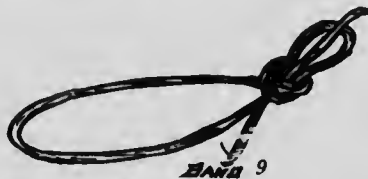
**Band 5**—This band is found with the bundle and has both of its ends crushed and ragged. The twine tensor is perfect, but the disk is very tight. The trouble is usually the result of the operator's tendency to overdo adjustments by giving the disk spring set screw one or more complete turns, the disk being so tight that it refuses to yield twine to the bills, which simply break both ends of the band at the disk as they revolve.

**Band 6**—Found with the bundle, and both ends are bent, showing that the knot was formed, but not completed. The following causes may have been responsible for the trouble: (a) The knotter bill spring may be too loose and the bills have, therefore, failed to pull the ends of the band through the loop into a knot, or (b) the bills being worn, may have failed to hold the ends until the knot was pulled sufficiently tight. Tighten the bills spring. If this does not remedy the trouble, new bills and the bills shaft will have to be supplied.

**Band 7**—This band will sometimes result when the bills are very tight and the machine is producing very loose bundles. It results from the stripper pulling the band up from below the breast plate instead of pulling the knot off the bills. Loosen the bills spring slightly. If this does not remedy the trouble the machine will have to be set to tie a tighter bundle. This trouble may also result from a badly worn cam roller on the stripper arm. If this cam roller has become worn lopsided, the stripper arm may not be forced far enough to pull the loop off the bills and the band will be broken, as shown by the discharge arms forcing out the bundle. Supply a new stripper arm complete.



**Band 8**—With this trouble a slip noose is tied around the bundle and the twine extends from the cast bundle to the eye of the needle. The needle has failed to place the needle end of the band in the disk, due to the following: The eye of the needle may be badly worn back and the needle cannot advance far enough to carry the twine to the disk. Such extreme wear is due to operator's attempt to make a tight bundle by tightening the twine tension. If the needle does not carry a special wearing piece, which can be renewed, a new needle will have to be supplied. The needle point on most machines protrudes slightly above the deck when the needle is at rest. Such position is correct.



**Band 9**—This is a perfect band and perfect knot. It is shown here with trouble bands because so many farmers think that the knot is imperfect, and complain because it is an apparent waste of twine. The bow knot simply includes in the bow and the short piece of twine which is cut loose and lost by those machines which tie a hard knot. The bow knot is not the cause for a material loss of twine, and there is strong indication that it will stand the shockers' handling better than the hard knot.