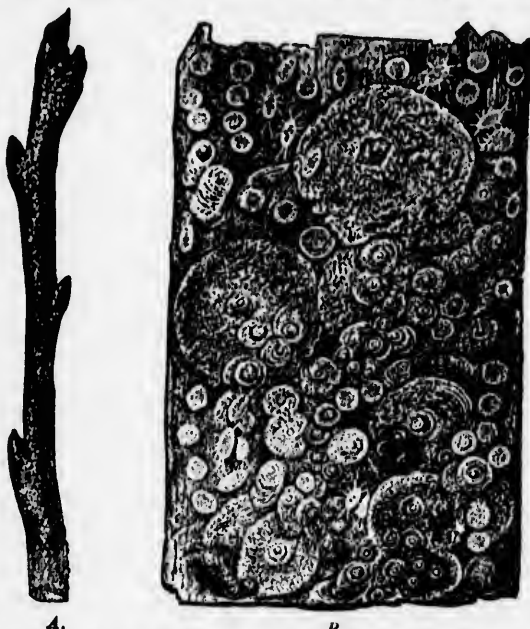


run down the stem and collect about the base. If a band of any sort is placed about the tree, or if oil collects about the base of the trunk damage is almost certain to result.

"When kerosene is used it should be purchased by the barrel, and of a grade not lower than 120° flash test. Low grades are more dangerous to plants than high grades. Forty gallons of kerosene will spray three hundred to four hundred trees, depending on size, and ought not to cost over ten cents a gallon in barrel quantities. This does not make it very expensive treatment. It should always be used on a bright, warm day, when the plants are dry, and just as little applied as can be made to wet properly every part of the plant."



A. Appearance of scale on bark; a, infested twig—natural size; b, bark as it appears under hand lens, showing scales in various stages of development and young larvae.

INSECT ENEMIES.

There are two enemies to the scale among insects, both of which are reported to aid very materially in keeping the scale in check. One, the "Twice-stabbed Ladybird" (*Chilocorus bivulnerus*), is very common on infested trees, apparently feeding upon the scale; the other is a chalcid parasite (*Aphelinus fuscipennis*).

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