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Lee

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[54] AZALEA HYBRID 'CONLEC'  
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[73] Assignees: Robert Edward Lee; Plant Development Services Inc., both of Loxley, Ala.  
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[57] ABSTRACT  
A new and distinct variety of azalea found as a seedling in a planned cross between the female azalea 'Georgia Giant' and the male *Rhododendron oldhamii* 'Fourth of July'. The new variety possesses a unique blooming time and is superior in development of an upright, dense, globose shaped plant with attractive large single purple flowers.

2 Drawing Sheets

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BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct variety of evergreen azalea of the genus *Rhododendron* and a member of the Ericaceae family. This new azalea variety, hereinafter referred to as 'Conlec', was discovered by Robert Edward Lee of Transcend Nursery in August, 1986 in Independence, La. 'Conlec' originated from a planned cross hybridization between two selected breeding lines in a controlled breeding program in Independence, La. The value of this new cultivar lies in its unique blooming period, bloom color, bloom form, bloom size, and growth habit. Asexual propagation of the new plant by cuttings has been under Mr. Lee's direction at the same location. Several generations of the new plant have been evaluated and the distinctive characteristics of the plant have remained stable. The plant cannot be reproduced true from seed.

SUMMARY OF THE INVENTION

The following are the most outstanding and distinguishing characteristics of this new cultivar when grown under normal horticultural practices in Independence, La.

1. The unique spring, summer, and fall blooming.
2. A purple flower color Red-Purple Group 71C with dotting color Red-Purple Group 64B.
3. Large, single flower with wavy petal margins. The flowers range in size from 3½"–4" diameter.
4. Easily propagated with semi-hardwood cuttings in late spring through the summer.
5. Fast growth rate under normal fertilization and moisture conditions.
6. Upright, dense and globose in nature.
7. Good specimen plant.
8. Desirable in planters.
9. Makes a very good hedge or screen.
10. Very good foundation plant for large buildings.
11. Does well as an understory plant in a woodland garden.
12. Hardy to Zone 7.
13. Attracts butterflies.

DESCRIPTION OF THE DRAWINGS

This new azalea hybrid variety is illustrated by the accompanying photographic prints in which:

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1. FIG. 1 is a close-up showing flower, foliage, and stem color as well as flower size and form.
2. FIG. 2 shows the dense, upright and globose growth habit of a young three gallon plant.
3. FIG. 3 shows a young crop of three gallon plants in mid October.
4. FIG. 4 shows the effective use and nature of use of the new variety in an established landscape planting. Photograph taken early July before bloom.

The colors shown are as true as is reasonably possible to obtain by conventional photographic procedures. The colors of the various plant parts are defined with reference to The Royal Horticultural Society Color Chart. Description of colors in ordinary terms are presented where appropriate for clarity in meaning.

BOTANICAL DESCRIPTION OF THE PLANT

The following is a detailed description of the new variety of azalea based on my observations made of plants grown in wholesale commercial production practices, in greenhouses, and in established landscape plantings in Independence, La.

Distinctive Characteristics

Characteristic	'Conlec'	'Georgia Giant'	<i>R. oldhamii</i> 'Fourth of July'	<i>R. oldhamii</i>
Height (Mature)	6'–8'	6'	8–10'	8–10'
Width (Mature)	6'	5'	6–7'	6–7'
Flower Size	3½–4'	4–5½"	1¾–2¼"	1¾–2¼"
Flower Form	Single	Single	Single	Single
Flower Color	Red-Purple G. 71C	White G. 155D	Red G. 39A	Red G. 39A
Flowers per Terminal	2–3	1–4	2–4	2–4
Bloom Period	April			Mid-May > Mid-June
Bloom Period	Late July > Frost	May	Mid-June > Frost	Sporadic > summer
Petal Number	5	5	5	5
Hardy Zone	7	7	7	8
Stamen Number	8–10	8–10	7–10	7–10

The female, or seed parent, of 'Conlec' is the azalea 'Georgia Giant'; an upright growing azalea with a large, single, white bloom. 'Georgia Giant' is an unpatented hybrid developed by James Harris of Lawrenceville, Ga. Mr. Harris started his hybridizations in 1970 and one of his objectives



was to produce azaleas with unusually large blooms. 'Georgia Giant' is the result of a cross between the white blooming Glenn Dale azalea 'Moonbeam' and the purple blooming Ryukyu azalea 'Lilacina'.

The male, or pollen, parent is *Rhododendron oldhamii* 'Fourth of July' which originated for a *R. oldhamii* seed lot collected in 1968 by Dr. Hsu of Taiwan University. The seeds were collected at 850 meters elevation on Mount Tai Tun in Taiwan. Soon after this John Patrick of Oakland, Calif. was visiting Taiwan collecting plant material of the Taiwanese *Rhododendrons*. He obtained a number of seedlings from Dr. Hsu and grew them in Oakland, Calif. In 1973, Dr. John T. Thornton of C&T Nursery in Franklinton, La. obtained one of the *Rhododendron* seedlings from Mr. Patrick. Dr. Thornton noticed in the next few years that this particular *R. oldhamii* plant was a perpetual bloomer from late June until frost on new growth. This plant produces two flushes of growth containing flowers. The second flush of growth overlaps the first flush producing a plant which blooms continuously. This differs from the species *R. oldhamii* which blooms from mid-May until mid-June and sporadically through the summer. Dr. Thornton subsequently named this plant *R. oldhamii* 'Fourth of July' in 1972.

The azalea 'Fourth of July' seems to be hardy to about 10 degrees F (zone 7). Temperatures below this cause dieback, but the plant readily recovers and blooms profusely the following summer. *R. oldhamii* is less hardy at zone 8.

Robert Edward Lee's hybridization program was conducted with emphasis on species that are not commonly found in the genetic make-up of the present day hybrids. The 'Fourth of July' cultivar which Mr. Lee obtained from Dr. Thornton in 1981 is a heavy summer and fall blooming plant, not like the *Rhododendron* Species Foundation form. The flower buds form on new growth and start blooming about July 1. Mr. Lee used this species to cross with existing hybrids which have a tendency to bloom in the fall and which are also fairly hardy. As expected the resulting seedlings are heavy summer and fall bloomers with very impressive spring blooms also.

#### Classification:

*Botanic.*—*Rhododendron* hybrid 'Conlec'.

Form: Upright, dense, and rounded.

Texture: Medium.

Height: 6'-8'.

Width: 6'.

Growth habit: Upright, dense and globose. Fast growth rate under normal fertilization and moisture conditions.

Growth rate: In a period of six years from a rooted cutting the plant reaches a height of 3 feet and a spread of 4 feet.

The growth rate is normally about 10 to 12" per year; the plant reaches a height of 6 to 8' at maturity while maintaining a dense habit due to the abundant branch development.

Foliage: Alternate, simple, evergreen, pubescent, elliptic, and varying in size from 2¼" to 2¾" long and ¾" to 1½" wide. The margins are entire, with a petiole ⅜" to ½" long. Midveins and laterals are impressed on the upper leaf surface and prominent on the underside. The base of the leaf is cuneate to attenuate and the apex is acute to mucronate. The upper surface of the immature leaves are dull, pubescent, and are Yellow-Green Group 144A and the underside is Yellow-Green Group 146D, pubescent, and matte. The upper surface of the mature leaves are Yellow-Green Group 147A, dull and slightly pubescent and the underside is Yellow-Green Group 146B, matte,

and pubescent. New growth is heavily pubescent. These hairs are initially soft and white and cover both sides of the leaf with a higher concentration on the petioles and veins. They are slightly curled, flat, and range in length from ⅓₂" to ⅓₈". As the growth matures much of the leaf pubescence is lost; however, the stems, petioles, and leaf veins retain this pubescence which becomes more setaceous and darker in color (Brown Group 200A) through the growing season.

In 1994, the date of initial spring growth was March 10, in Independence, La. After the initial spring flush there was almost continuous growth until that fall ending October 23, also in Independence, La. When grown in full sun, the internode length of this plant is ⅝" to 1"; when grown in light shade the internode length is ⅞" to 1¼". As would be expected a plant grown in shade results in a taller, less dense plant with larger leaves.

The average length of terminal growth of the initial spring flush is about 6" for a plant in full sun and about 8" when grown in shade. This growth should not be trimmed since it will produce flowers starting in late July. As the plant continues to grow through the summer and fall more flower buds are produced, which mature and bloom until frost. This remaining growth produces about 5" to 6" of height. As cool weather approaches, some of the flower buds become dormant. These buds bloom in April of the next year.

Stems: The young stems are Yellow-Green Group 146C and densely clothed with spreading white glandular hairs intermixed with scattered spreading, flattened hairs. During the second growing season they become Greyed-Green Group 197B, glabrous and rugose. The immature petioles, midribs, and veins are also Yellow-Green Group 146C. The pith is solid and uniform. Young and older stems are densely branched.

Buds: Tight buds at ½" are ovate and acuminate Yellow-Green Group 146D with a hairy pubescence Brown Group 200A. The buds are borne in clusters of 2 to 3, and are sheathed by a pair of modified leaf bracts which are from ¼" to ⅝" long, persistent, and Yellow-Green Group 147A. The pedicel is ½" to ⅝" long, heavily pubescent, and Red Group 47B. The calyx is ⅜" to ½" long, Yellow-Green Group 144A, funnel shaped, persistent, and heavily pubescent. The five imbricated sepals are lanceolate and joined at the base to form a cup. As the buds swell the bud sheath matures to a Greyed-Orange Group 165A, falls off, and reveals the flower color Red-Purple Group 71B.

Flowers: Perfect, single, Red-Purple Group 71C front, Red-Purple Group 71D back, glabrous, openly funnel shaped, 3½" to 4" wide by 2½" to 2¾" long, borne on current season's growth, non-fragrant; they last on the plant in the garden 5 to 6 days. There are 5 petals which are fused at the base, elliptic to obovate, and have wavy margins. The dorsal lobe and the two upper wings are dotted Red-Purple Group 64B. There are 8 to 10 stamens which are 1½" to 2" long. The filaments are Red-Purple Group 62A, the anthers are Red-Purple Group 59A, and the pollen matures to Yellow Group 11B. The pistil is single, 1¾" to 2¼" long and Red Group 54B. The ovary is densely glandular-setose and has five locules. The capsule matures in about 5 months, in Independence, La., to about ¼" to ½" long; it has a persistent style, is Yellow-Green Group 147A, and contains from 100 to 400 nonwinged seeds. Normally fruit set is not heavy. There is a 2 to 3 week flowering period in April in Independence, La. Flowering resumes in late July as the new buds mature and continues until frost which can be as late as November or December



Plant 10,580

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in Independence, La. Azaleas blooming at this time of year attract butterflies in profusion.  
Culture: Grows well in a wide range of conditions, tolerates sun to shade. Prefers a moist, well-drained soil that is rich in organic matter. Responds well to mulching and medium applications of fertilizer; prefers ph 5.0 to 5.5. Very little pruning is needed; adaptable to container and above ground planters; makes a good foundation plant or informal hedge with excellent foliage and flower contrast.

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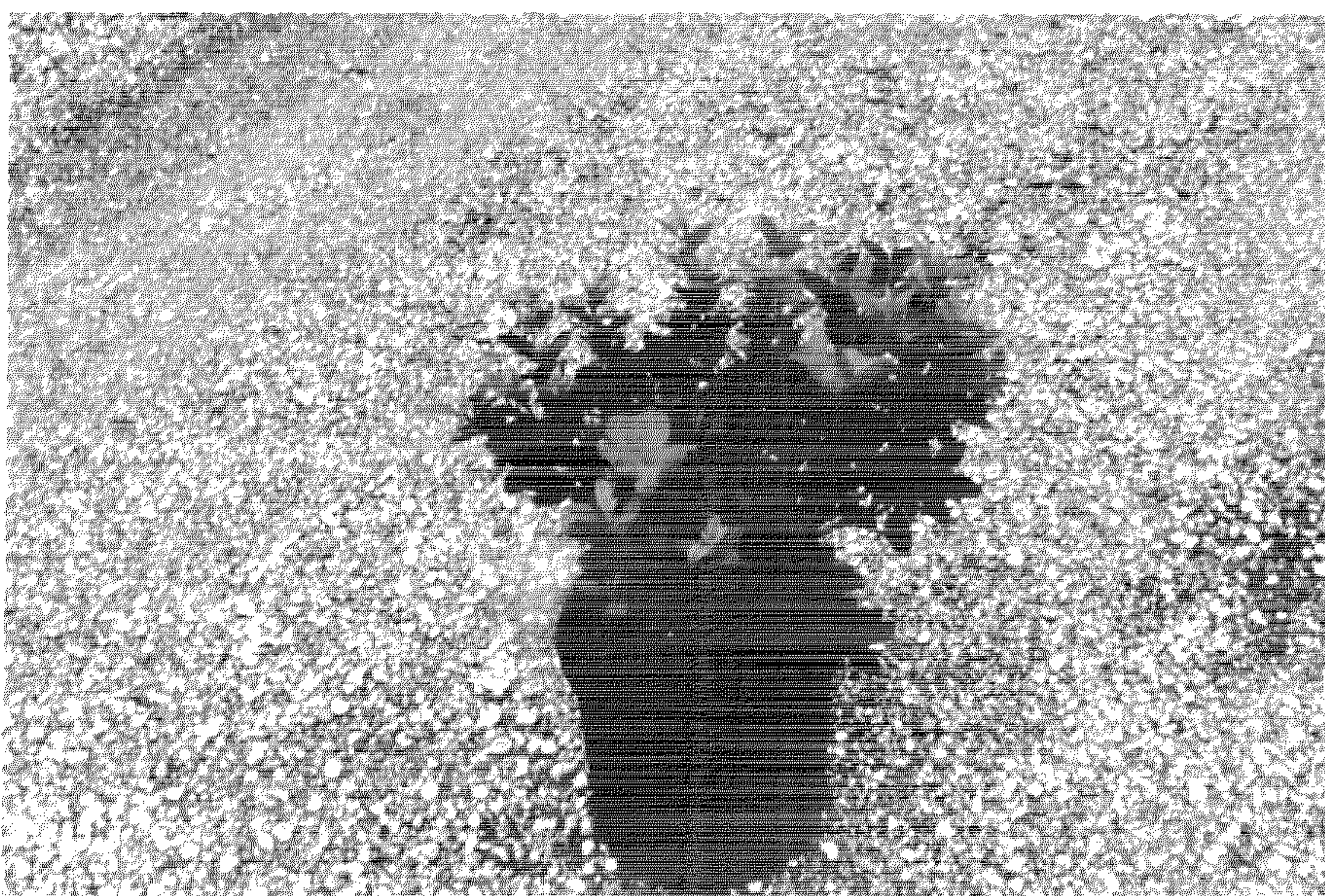
Ideal for coastal regions and warmer parts of Piedmont. Propagated with semi-hardwood cuttings in late spring through the summer.  
Pests: Lace wing and spider mites can be a problem.  
I claim:  
1. A new and unique variety of azalea Hybrid plant named 'Conlec', as herein shown and described.

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*Fig. 1*

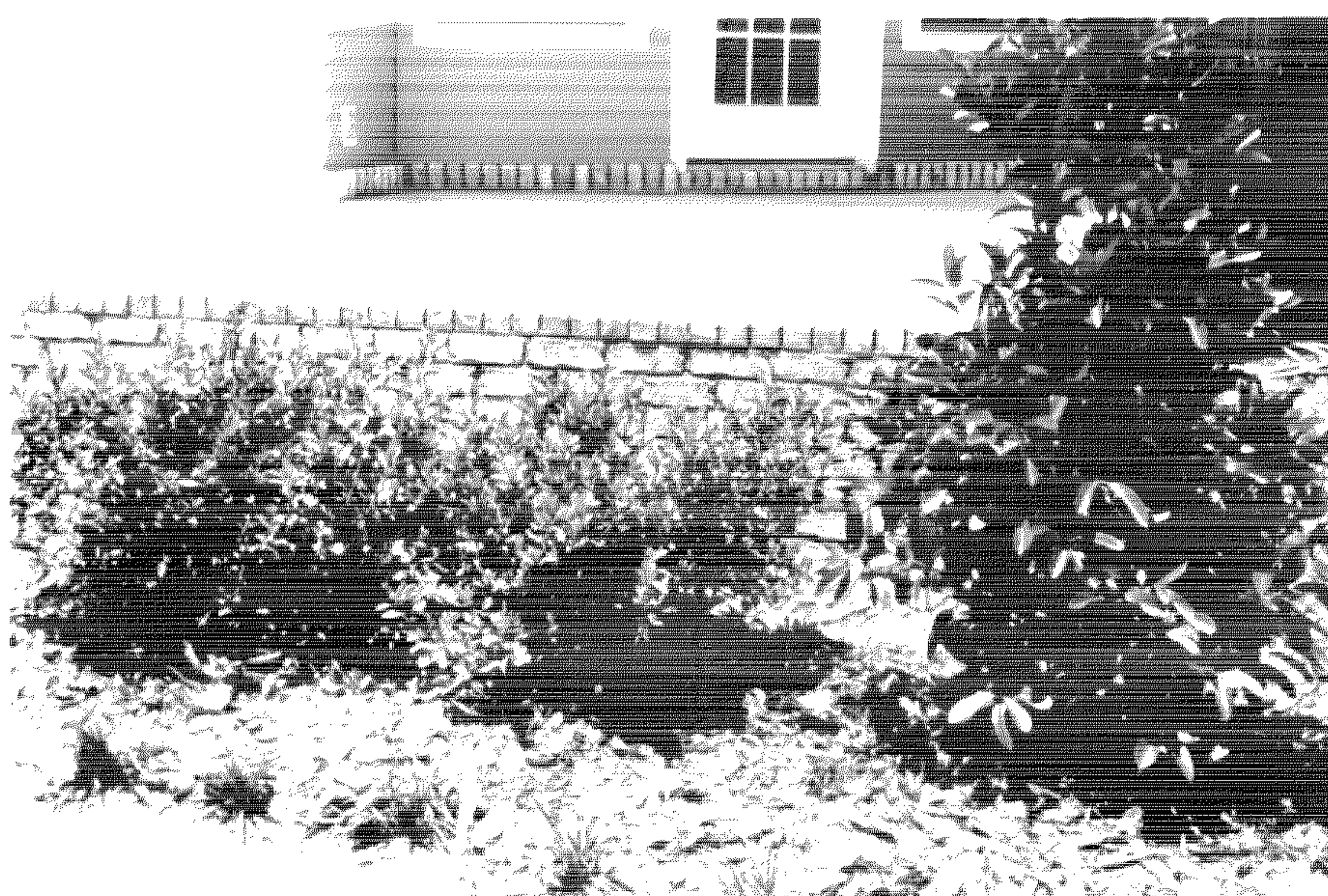


*Fig. 2*





*Fig. 3*



*Fig. 4*