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[54] PEACH TREE NAMED 'CORINTHIAN ROSE'

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[57] ABSTRACT

A new and distinct cultivar of ornamental peach tree called 'Corinthian Rose' is provided that demonstrates a narrowly columnar growth habit, a vigorous growth rate, dark purple foliage, and an abundance of dark pink colored, double flowers. The new cultivar produces very few fruit, and is intended for use as a Spring flowering ornamental plant in the home landscape.

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4 Drawing Sheets

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SUMMARY OF THE INVENTION

The new and distinct variety of peach (*Prunus persica* (L.) Batsch) originated as a second generation descendant from a hand pollinated cross of North Carolina Selection NC174RL nectarine (non-patented)×a selection of Japanese 'Pillar' Peach made in 1983 at the Sandhills Research Station at Jackson Springs, N.C. The parent plants used in this hybridization have not been named and released and are unavailable in commerce.

The seeds resulting from this controlled hybridization were germinated in a greenhouse at North Carolina State University, Raleigh, N.C. in the Fall of 1983 and planted in the field in Spring of 1984. These trees were grown to maturity; trees were self pollinated in Spring of 1988, and the resultant seed was harvested in August 1988. This seed was sown directly in the field in November 1988, and seedlings flowered in 1991. One seedling, designated NC174RL×Pil-248, was selected for its dark purple foliage color, narrowly columnar growth habit, and heavy production of dark pink double flowers.

During 1993 and 1996, the original plant selection was propagated asexually by grafting of vegetative buds onto a peach rootstock, cultivar 'Lovell', at the Sandhills Research Station. A grafted tree of the variety was established at the North Carolina State University Lake Wheeler Field Laboratory Research Station in Raleigh, N.C. Subsequently, a larger test planting has been established with asexually multiplied plants at the Sandhills Research Station, at the above noted location.

The new variety has routinely been asexually multiplied by grafting, specifically 'T' and chip budding. It readily forms a graft union with 'Lovell' peach rootstock and resumes normal growth. During all asexual propagation, the characteristics of the original plant have been maintained and no aberrant phenotypes have appeared.

Test plantings at the two research station locations noted above, which vary considerably in soil and climatic conditions, demonstrate this variety to be widely adapted to differing soil and climatic conditions.

Plants and fruit of this new variety differ phenotypically from its antecedents. The new variety produces dark purple leaves and dark pink double flowers, differing from the single pink flowers of NC174RL and the double pink and white variegated flowers, and green leaves of the Japanese 'Pillar' Peach antecedent. Growth habit is narrowly columnar, and fruit are pubescent (peach), distinguishing it from the NC174RL nectarine antecedent. Fruit of this new variety

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are small and of poor quality, and are of no commercial importance.

Plants of the new variety are very vigorous and grow rapidly after establishment of trees in the field. Young trees have averaged 3-4 feet of growth per year. A four-year-old tree measured in Raleigh, N.C. was 14 feet in height and 4.3 feet in spread, with spread measured 6 feet from ground level. Trunk diameter (girth) was 4.1 inches, measured one foot from ground level. Plants are narrowly columnar in growth habit. The branch angles between the trunk and lateral branches of 'Corinthian Rose' measure between 5 to 20 degrees, in comparison to non-columnar peach varieties such as 'Contender', which typically measure between 35 to 50 degrees.

Flowering sometimes occurs in the second year of growth, but more commonly trees begin flowering in the third year after establishment. Flowers are fully double, dark pink, and very attractive. Flowering usually begins in mid to late March in Raleigh, N.C.; the date of first bloom typically occurs from March 15 to March 30. Full bloom typically occurs from March 25 to April 10, depending on weather conditions. Bloom duration is typically 10-14 days, and individual flowers last about 7-10 days, depending on temperature during bloom. The chilling requirement is estimated to be 950 hours below 4 C., based on comparison of flowering time to peach varieties 'Contender' (unpatented), 'Winblo' (unpatented), and 'Clayton' (unpatented) at the Raleigh, N.C. test site.

While 'Corinthian Rose' is a self-fruitful peach variety, fertility of flowers is poor, and fruit set is generally low in most years, for unknown reasons, unrelated to the pollination requirements of the tree. It is estimated that less than 1% of flowers produced set fruit. Fruit are very small, bitter tasting, and of no horticultural importance. Fruit ripen in mid to late August in Raleigh, N.C.

'Corinthian Rose' possesses double, rose colored flowers, and dark purple leaves, distinguishing it from 'Corinthian White' (co-pending U.S. Plant patent application Ser. No. 09/146,219), which possesses double, white colored flowers and green leaves. 'Corinthian Rose' differs from 'Corinthian Mauve' (co-pending U.S. Plant patent application Ser. No. 09/146,220) in having dark purple leaves and rose colored flowers in contrast to the green leaves and mauve colored flowers of 'Corinthian Mauve', 'Corinthian Rose' differs from 'Corinthian Pink' (co-pending U.S. Plant patent application Ser. No. 09/143,339) in having dark purple leaves and rose colored flowers in contrast to the light purple leaves and light pink flowers of 'Corinthian Pink'.