THE BUNGALOW, 1600 - 1980

A study of the cultural, social, political and economic factors in the production of a global house-type

Anthony Douglas King

Volume One : Text
Volume Two : Illustrations

Thesis presented for the degree of PhD

School of Social Sciences
Brunel University
Uxbridge

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THE SPINE
ILLUSTRATIONS

Illustrations are included in Volume Two; numbers on the right hand margin of the text refer. As the context of these illustrations is discussed in the text, only brief captions have been added where necessary.
INTRODUCTION
He rejected exotic subject matter in favour of the mundane — in Mexico for instance he photographed his lavatory bowl which, he said, reminded me in the glory of its swelling, sweeping, forward movement of finely progressing contours, of the Winged Victory of Samothrace'.

SARAH KENT
REVIEWING EDWARD WESTON — TIME OUT

COMPOSERS IN CONVERSATION
Alan Ridout in conversation with SEA Composition Prize Winner Sylvia Hallett

AR You've called your first orchestral work 'This Sometime Silence', and a note I saw describes it as being evocative of the sounds heard during a period of silence. Superficially there might seem to be a contradiction here. However, when one is in an entirely silent place one is supposed to hear two things, the heart and the blood circulation. Was this your starting point?

SH The textures I am using are based around moving clusters — creating an impression rather than a description of those kinds of sounds, including some sounds of the imagination.

SOUTH EAST ARTS REVIEW

Anthony King teaches at Brunel University. He is author of 'Colonial Urban Development' and is currently writing a cultural history of the bungalow.

BUILDING DESIGN

On the other hand, eating a bowl of porridge after seeing Lost Horizon at the age of eight is a replay of his primal lost love, Shangri-La womb; princess turns to old woman and crumbles to dust + placenta withers and dies. The arrow represents what New Maths calls a mapping, an analogical relationship both less presumptuous and more evasive than a homology.

ERIC KORN ON
R.D. LAING — NEW STATESMAN

(3) Prose Style/Technical Structure

The amount of nonsense written about Ballard the Innovator is legion. Literary revolutions, like all others if genuine, are technical. They are involved with the development of newly accurate modes of objective perception and communication. Hence they imply a moral repercussion upon a system of ultimate reality. They happen at the interface of form & content (itself an artificial distinction). They have nothing whatever to do with subject matter as such.

DUNCAN FALLOWELL
BOOKS & BOOKMEN


£2 paid for entries
CHAPTER ONE

INDIA
The East India Company's settlements in the Indies 1660–1760.

The English Factory at Surat, late 17th century. Key: 1 Church 2. House 3. Magazine. Source and exact date unknown, but Italian. (Courtesy, BBC Hulton Picture Library). This is not the Factory described by Fryer but one built apparently later.
Top: Factory of the Dutch East India Company, Hugli, Bengal, 1665. Below: Dutch plantation in Bengal. By Hendrick van Schuylenburgh (Courtesy, Rijksmuseum, Amsterdam). The factory was on the River Hugli, the main means of transport. The contrast between European and Indian settlements is well depicted, with the latter made up of indigenous 'banggulos'. These native built houses seem also to have been used for storage and other purposes outside the factory.
The indigenous 'bangolo'. Near Barrackpore, 1813. Drawing by George Chinnery. (Courtesy, India Office Library: subsequently, IOL).
'House of a Hindu' 1786. Outside Calcutta. Drawing by Ozias Humphry (Courtesy, British Museum. 15,965f). The Count de Modave, travelling through Calcutta in 1773-4, wrote 'The most conspicuous houses are surrounded all alike with hutmements of straw. The bazaars or public markets have nothing grand or regular to offer. Some of them are brick. The greatest number are not built of anything other than bamboo cabins and roofs of thatch'. The cabins here provided accommodation for servants. (I am indebted to Dr R. Llewellyn-Jones for both this information and the source of this illustration. See also Llewellyn-Jones, 1980)
The indigenous 'banggolo'. Photograph, Samuel Bourne, c1860s (Courtesy, IOL)

F. Fiebig, c1850s (Courtesy IOL)
The Bengali hut and Muslim architecture. Chota Sona Masjid (mosque), Begherat, Bengal, mid 15th century (Dani, 1961).

Bengali village. Samuel Bourne, c1860s (Courtesy, IOL)
Mausoleum of Fath Khan, Gaur, Bengal. Mid 17th century (Dani, 1961)

European settlement at Mulnath, Bengal, mid 19th century

(C. Grant, *Rural Life in Bengal*, Calcutta, 1859)
battered, ramshackle motor-bus, packed to the running-board and coughing its way through clouds of dust along the unmetalled roads to the nearest town. There may be loss as well as gain in all this; but it is idle to bewail the break-up of integrated codes of life – too often integrated by religious, social and economic sanctions which were a complete denial of human dignity. In any case the

KUMAON — Poorest (Stone)

KUMAON — Well-to-do (Stone)

DUN AND BHABAR — Wattle and daub

BHABAR — Better-class long-settled villages

WESTERN UP — Mud walls and roof (cf SW Asia)

EASTERN UP — Mud walls, tiled roofs

EASTERN UP — Well-to-do, masonry

EASTERN UP — Poorest, mud walls, tiles

BUNDELKHAND — Mud walls, tiled

BUNDELKHAND — Stone, stone slab roofs

BENGAL (CONTINUED) — Well-to-do, bamboo and thatch on mud plinth. Double roof

BENGAL — Poorest. Bamboo thatch

FIG 7.3 SOME NORTH INDIAN HOUSE TYPES. Redrawn by Marjory Fowler from illustrations in theses by E. Ahmad and B. Mukerjee.

1.17
Indigenous prototype: the 'chauyari'

1.18
European adaptation: the bungalow
(from Grant, 1849)
The three bungalows (two to R, one at L) were probably for guests of Martin. The structure marked R, is a racket court, known as 'gend khana' in Urdu ('ball house'). From this, the term 'gymkana' is said to originate.

(I am indebted to Dr R. Llewellyn Jones for the source of this illustration and the information)
The British army service tent

(Courtesy, IOL)
THE NEW HOUSE

I. Ensign Green is appointed Sub Assistant Deputy Commissioner at Pugglewa.

II. He determines to build a New House. His first plan.

III. Amendment suggested by Scientific Friend.

IV. Final Amendment (that of the Majesty) Adopted.

V. The Builders Commence work.

VI. Appearance of the House after six months. A further advance required.

from Delhi Sketch Book, 1853
Plan of bungalow, early 19th century, Bangalore. (from Pott, 1977)
Bungalow interiors, 1860

The punkah (Courtesy, IOL 1975)
Jagannath Temple, Bihar and 'Bungalow's', 1820. The latter seem likely to have been used by European visitors to the temple (Courtesy, IOL)

The bungalow and compound, Punjab, c. 1860s (Courtesy, IOL)
Territorial markings: the compound c1840s, 1810  (Courtesy, IOL)
The contrast between 'Colonel Chapman's bungalow' and the 'native city' - in this case, Peshawar - is clearly demonstrated on one page of this album of photographs (Courtesy, IOL)
The bungalow as accommodation for guests. (Late 18th century, courtesy IOL)
As at the temple of Jagannath, the bungalow provided accommodation for European travellers visiting the sights. *Surseya Ghaut, Khanpore.* From C.R. Forrest, *A Picturesque Tour along the River Ganges and Jumna, 1824* (Courtesy, IOL)
Mahabaleshwar Hills, Bombay, c1835

The bungalow in 'the hills': early 19th century. (Courtesy IOL)
(The sheet music on the piano inside the doorway can just be discerned . . .)
COFFEE-PLANTER'S BUNGALOW
CEYLON.

REV. T.F. COLES BUNGALOW, TALJARI
The generalised use of 'bungalow' to describe a 'European' house. F. Fiebig, c1850s (Courtesy, IOL)
'Classical' bungalow, or 'pukka' house: Public Works Department (PWD) vernacular, c1860s (Courtesy, IOL)
The 'genuine' Anglo-Indian bungalow, late 19th century (Courtesy, IOL). The enclosed corner of the verandah, forming a bathroom, can be clearly seen (below).
KISHNAGHUR DĀK BUNGALOW.

ASSISTANT MAGISTRATE'S BUNGALOW, KISHNAGHUR.

from C. Grant, *Rural Life in Bengal*, 1859

Anglo-Indian vernacular, Bihar, 1968 (ADK)
'the name has been somewhat altered by Europeans and applied by them to all their buildings in the cottage style although none of them have the proper shape and many of them are excellent brick structures adorned with the forms of Grecian architecture' Buchanan, 1810.

'Colonel Grace's Bungalow, Cawnpore, 1813 (Courtesy, IOL)

Officers' bungalows on a cantonment, showing 'pyramidal' and 'PWD' or 'Military Board' types. Late 1860 (?) (Courtesy, IOL)
Deolali — Coffeeshop.

Infantry barracks, Jubbulpore, C. P.

The Tropaj Bungalow, Bhavnagar.

The cantonment, and barracks for troops, also known as 'bungalows'. c1905-10.
The dak bungalow c1850
F.Fiebig (Courtesy IOL)
1968 (ADK)
c1912
Some uses for the verandah
(Courtesy, IOL)

from A. Cheem Lays of
Ind' London, 1883

from J. L. Kipling, 'The origin of the
bungalow', Country Life in America,
19, 8, 1911.
TYPICAL LAYOUT PLANS for OFFICERS QUARTERS.

Fig. 28.—Plans of South Indian Railway Bungalows.

Planning: olfactory considerations.
Top: Government of India, Military Engineer Services Handbook, vol 7, 1925
Below: S.D. Meadows, Modern Eastern Bungalows and How to Build Them, Thacker, Calcutta, 1931

CONSIDERATIONS IN PLANNING.
Architecture as symbol: the Imperial image. Burdwan, Bengal, 1860s
(Courtesy, IOL)

Bungalow for the Prince of Wales, Coronation Durbar, Delhi, 1911
(Courtesy, IOL)
The adoption of 'Western' forms: Calcutta, c1850s
F. Fiebig (Courtesy, IOL)

Courtesy, IOL
Delhi, Civil Lines, 1973

1.57

Map of Delhi and Vicinity, 1912 (No O V l(C), Courtesy, IOL)
Caption on reverse
"Gazetted Officer's
Bungalow, Class 'C'
Delhi, c. 1940

New Delhi, 1931
Imperial Gazetteer
of India, vol 24,
Atlas, 1931.
from Government of West Pakistan, Punjab Public Works Department, Buildings and Roads Branch, Designs of 'A' Class Bungalows and Houses for Satellite Towns, 2nd edition. Lahore, Superintendent, Govt Printing, 1956. (I am indebted to Professor Otto Koenigsberger for this material)
from Islamabad

Pakistan's New Capital, Capital Devt Authority, 1976

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<td>350 to 550</td>
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<tr>
<td>B</td>
<td>up to Rs. 219/-</td>
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<td>C</td>
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<td>I</td>
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<td>2800 to 3200</td>
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SUBORDINATE STAFF HOUSING, ISLAMABAD.

I am indebted to Dr David Page for this information & data.
Housing by Delhi Development Authority 1970
Penang, Malay Straits, 1814. 'The garden houses and bungalows are erected here (in Penang) in the same manner, and with similar materials, as they are near Madras ... They are surrounded with gardens, and each has its verandah' J. Wathen, Journal of a Voyage, etc. 1814.

Penang became a key entrepot port of the mercantile and colonial trading system between India and China in the 19th and 20th centuries, the leading port of what is now Malaysia. It was founded as Georgetown by Captain Francis Light of the East India Company in 1786. The bungalow tradition was to flourish. Below: From Penang, (Prince of Wales Island) The Picturesque Island of Malaya, Georgetown, Penang, 1932

(I am indebted to S. Robert Aiken for these illustrations).
CHAPTER TWO

ENGLAND 1750 – 1890
The nabob's return: hints of the Bengal connection 2.1

Sezincote, Gloucestershire 1803 (photo, ADK)

Cottage design 'with a viranda in the manner of an Indian Bungalow' (Plaw, 1800) 2.2
The image transferred:

Charles D'Oyley lithograph, 1825

(courtesy, India Office Library)

2.4

F. Fiebig, photograph, Madras, c1850
Exclusive resort: Westgate, 1876. The first bungalows are immediately above the bathing tents (Granville Illustrated News, Courtesy, H. Hambidge)
A BUNGALOW -
AT WESTCLIFF-BIRCHINGTON-ON-SEA -
ISLE OF THANET -


The bungalow in England: the first location and site. "Nothing between it and the sea."
Swimming, as health-giving activity: private access to the beach
Private access to the beach. The change in social patronage of Birchington in the hundred years since this development was created can be seen by reference to the LEEDS ARSENAL decoration painted at the right. The site of one of the first bungalows (to right) was re-developed (c.1970) to accommodate c.30 houses. (Photo, ADK 1972)
Birchington, phase one development, 1870

2.10

BUNGALOW NO 1

DRAWING NO 2

Front to Road

BUNGALOW NO 1

DRAWING NO 1

Front to Sea

BUNGALOW NO 1

DRAWING NO 4

Side Elevation
Birchington, phase two, 1872-3.

2.13
The first pre-fabricated bungalow, Birchington, c1877. This was to be occupied by D.G. Rossetti for some weeks before his death in 1882. (Mayhew, 1881)
The first prefabricated bungalow, c.1877. Photograph from Estate Agent's notice of auction, 1952 after which it was demolished.
Bungalow development, phase three 1881-2.
THE "BUNGALOW HOTEL."

The Westcliffe Hotel,

BIRCHINGTON-ON-SEA,

ISLE OF THANET, KENT.

This pleasant Hotel stands in its own grounds, in close proximity to the Station of the London, Chatham and Dover Railway at Birchington, near Margate.

It commands an extensive sea-view, is replete with every comfort, and combines elegance with simplicity in its construction and appointments. All the rooms are on the ground floor. There are several Lawn Tennis and spacious Pleasure Grounds attached to the Hotel.

Visitors can be received at moderate charges by the day, upon the usual hotel arrangement; or by the week, on inclusive terms, on the boarding-house system.

"Invalids seeking health, should visit this truly glorious sanatorium."

Vide Times's Magazine, for March, 1881.

The salubrity of the North portion of the Isle of Thanet is too well known to need reiteration, and Birchington, from its peculiarly high level and gradual slope seaward, and depth of chalk subsoil, is unrivalled even in that favored locality.

For further particulars as to terms, apply to

THE MANAGER,

MR. WILLIAM E. MARTIN,

Contractor for Building & Engineering Works,

THE BUNGALOWS, BIRCHINGTON-ON-SEA,

ISLE OF THANET.

Mr. Martin is now constructing Sea-side Bungalows, from the designs, and under the superintendence of Mr. John P. Sisson, Architect, of No. 1, Queen Anne's Gate, Westminster.

Each Bungalow is detached, standing upon a freehold site, with a frontage of 60 feet in case of the single-storied, and of 80 feet of the double-storied Bungalows. Each plot is about 350 feet in depth from the road in front to the edge of the chalk cliff, which is about 50 feet high.

Perfect privacy will be ensured by the fact that there is no public right of way along the cliffs, and access to the sea-shore will be obtainable at all times by means of tunnels direct from each garden to the beach.

The buildings will be erected in a substantial manner, and care will be taken to make all the sanitary arrangements as perfect as possible.

The Bungalows are within five minutes' walk of the Station, the arrival platform adjoining the Estate. There are frequent and fast trains, at cheap fares, to and from London.

Applications for leasing or purchasing any of the Bungalows, to be made to Mr. W. E. Martin, at the above address.
"ROSSETTI." The bungalow, now demolished, assumed this name after D. G. Rossetti, who died there.

Interior of a Bungalow

Drawing by J. Stevens of the Studio in "Rossetti"
Bungalow development, phase four. There seems no evidence that this design was constructed.

2.30
Bungalow development, phase four. This seems to have been built at the end of the 1880s. It appears on the picture of that period, taken from a souvenir letter opener (courtesy, A.G. Stevenson) for the floor tiles, which were laid in the usual manner. When a leak occurs in a roof over a boarded ceiling it is extremely difficult to locate it, for the water runs along the boarding and appears in the room below, several feet away from the faulty place. Trimming the joints round the flues where they rise through the upper floor should have careful attention, and if the house is meant for winter as well as summer use, a fireplace should be built in the “sun” room against one of the chimney breasts. On looking at the passages shown on the ground-
The Tower Bungalows

Raffles Davison’s sketch shows the development designed by John Tayl and J. P. Seddon to catch the Isle of Thanet’s bracing breezes. The terraces in the foreground were not built.

Fig. 1. Iron bungalow for Bombay (Works in Iron, 1868).
The bungalow as 'little country house' (Briggs, 1891) Briggs distinguished between a 'Bungalow House' (above) and the bungalow - the former, an informal architectural style.

'a very cheap Bungalow in Surrey - at a cost of £250'. Walls of stud work, felt & weather-boarding on dwarf brick walls Whole of woodwork 'painted ivory white'
built as 'a bachelor's summer residence' (Briggs, 1891) Cost, under £800.
As in the later American 'Craftsman' bungalows, appropriate symbols - in this case the crossed swords and visor - add a suitably masculine flavour. In a bachelor's summer residence, women visit only in pairs.
Design for a 'hill-side bungalow' 'a few miles from London, for a gentleman'. Generous dimensions, billiard room and basement with storage space for golf irons and bicycles indicate the leisure function (Building News, 1898)
PROVISIONAL SPECIFICATION.

I, WILLIAM KORTRIGHT BROCK of Trevalga, Boscastle in the County of Cornwall, Surgeon and Slate Quarry proprietor do hereby declare the nature of my invention for IMPROVEMENTS IN THE CONSTRUCTION OF SANITARY HOUSES AND BUNGALOWS to be as follows:

5. Rows of dwarf pillars support an iron or wooden gridiron on which is laid a floor of slabs of slate or other material selected. On this the walls of the house are raised, formed of slabs of the same nature placed on their edges in grooves in the floor, and kept in position by inside and outside skirtings below, and mouldings above forming the cornices of the rooms. The walls are of single slabs or double with an interspace between them according to climate. Joints are made secure by fish plates, and air tight by being screwed home against slag wool or other packing, by bolts and nuts and by horizontal and vertical tie-rods. There is free passage of air and light underneath the house. All drainage is received into a tank on wheels which is changed daily.

15. Dated this 29th day of September 1884.

WILLIAM KORTRIGHT BROCK.
The compact country image: 1909. The deckchair and sundial symbolise some of the supporting motives behind the bungalow, the name 'Alabama' perhaps a hint of American influences.

Bungalow style. Built in the new spacious suburbs of 1900, 'The Bungalow', Oakwood Grove, Leeds, is to the left, 'The Gables' to the right, though the informal, asymmetrical style was obviously conceived as a whole. The client and first occupants owned one of the city's main department stores. Many features were taken from the designs of Briggs.
**Bungalow House.**—Will some brother reader of our highly valued paper, Carpenter and Builder, kindly send in a plan of a small bungalow? To be built on the brow of a hill, to be built with rough tint stone, and brick the inside wall; to be principally composed of stained and varnished boarding; still work; roof to be made after the Swiss style. Each of them to contain three bedrooms, one sitting-room, one parlor, bath, kitchen, pantry, coal room, and scullery, with the about hall, bin, high. —"Carpenter (London)."

SEPT. 26, 1890.

The principal feature is the central hall or saloon from which all rooms can be heated when the weather is not severe enough to necessitate fires in each of them. The advantages of having the pantry connected to the dining room and separated from the kitchen will be appreciated by most housekeepers.

The response (and design) to the reader's query (top left) came from Santiago, Chile. The first identified reference to the bungalow as suitable for suburban, as well as country, locations.
Dear Sir or Madam,

THIS Catalogue is issued to give you assistance in the planning of your New Residence, Bungalow, or Cottage. If you should not find anything suitable for your requirements in these pages please write us, giving some idea of the accommodation required and, if possible, a rough plan, and we will forward a plan to scale with return stating approximate price for same.

We have had 35 years experience in Permanent and Composite Buildings, and only employ the very best workmen; our foremen are fully qualified tradesmen; well-seasoned timber only is used on all our contracts.

The plans and designs in this Catalogue have been planned to meet the requirements of both the small house builder and the big house owner. We give the same strict attention, workmanship, finish and quickness of completion to the former as the latter. The small house builder has more at stake than the big house builder, a larger percentage of his resources, maybe all his worldly wealth or even money yet to be saved goes into the home of modest size. Great care has been taken in the planning of this Catalogue. We have studied the ways and means of economising as much as possible both in the plans themselves and the construction materials. The Bungalows and Residences are constructed in brick, except where bricks are scarce or very expensive, and then we recommend concrete block construction, with a rough cast finish on the exterior, providing the aggregate for concrete can be obtained on the site or locally.

We also specialize in composite construction, and for these buildings we strongly recommend wood framing, lathed or covered with expanded metal on both sides, and the exterior rough cast and interior plastered. When finished it is impossible to tell at a glance whether they are brick or not. Instead of lath and plaster the building could be lined with asbestos sheets, they are fireproof, and when fixed to the walls and ceilings give a panel effect, which adds charm to the buildings, giving a half-timbered, old English design.

We give you inclusive prices and no extras, with a full specification and plans, and quote for houses erected anywhere in the British Isles.

With regard to fittings, in the majority of the plans you will notice Cupboards, Sideboards and Closets. These are special fittings we are fixing in all our houses if desired. The Fitting is a Kitchen fitting comprising one or two cupboards, drawers and sink all combined. Kitchen cupboard or sideboards to store all cooking utensils, and clothes closets to the bedrooms. You will find that these fittings are so arranged to avoid loss of space, and at the same time diminish the amount of furniture required. We will send you a loose sheet of these fittings if they are of interest to you.

We seriously solicit your enquiries for any plans or designs contained in this list, or of any ideas of your own, and will be pleased to give estimates for either Concrete, Brick or Composite construction.

In your enquiries please state how far the proposed site is from the station, and if level; also if sand is on the site, and in the case of Concrete Buildings if ashes, gravel or cinder is easily obtainable.

Yours faithfully,

HARRISON SMITH BUILDINGS LIMITED.
ORNAMENTAL BUNGALOW.

Design No. 29

A picturesque Bungalow, designed for those who rather favour the half circular bay window or oriel.

A substantial-looking Bungalow, and artistic in every detail. The octagon-shaped roof over oriel and the gables give it a unique appearance, the dark overlays and white background also add to its charm, and it will always prove an attraction to your friends.

HARRISON SMITH BUILDINGS LIMITED, BIRMINGHAM.

SIX-ROOM BUNGALOW. Design No. 37

We will survey the site for proposed Residence, and make all the necessary plans, and give you first-class information as to construction, style, and most advantageous position for your future home.
SIX-ROOM BUNGALOW.

Servants' Rooms in Roof.

Design No. 108

Beautiful homes are not accidental nor experimental, but products of the combined experience of skilled designers and practical builders.

This Bungalow has the characteristic of being home-like and exceedingly restful, arranged with Sitting Hall, Dining Room, Kitchen Bath Room, and three Bedrooms, complete with all Cupboard Fittings, Wardrobes, etc., and two Servants' Bedrooms and Boxroom in the roof. A large Verandah to the garden elevation gives a pleasing appearance and a very useful addition in the summer months.

To anyone who requires something unique or crafty this design will offer many suggestions. The rustic effect of the gables works out nicely with its simple lines and rough finish.

BUNGALOW RESIDENCE.

Design No. 110

We are at your service as regards the planning of your future home, and will do everything possible to bring the cost down. We do all the plans necessary for the local Authorities so there is no extra charge for plans.

Estimate and Specifications on application.
FOUR-ROOM BUNGALOWS.

These are two tiny but attractive little Bungalows, and make real suitable homes for families of three or four persons.

Comprising two Bedrooms, Living Room, Scullery, and usual offices.

Design No. 101

Complete with Kitchen Fitments, Sideboards, and Closets.

Do not wait for imaginary lower costs, you are spending TIME, which is something more valuable than the money you may or may not save.

Design No. 102

Design No. 103

A little home to accommodate a family. Convenient Kitchen, fitted with Kitchen Fitment and Cupboard. Two comfortable size Bedrooms, with Clothes Closets.

A Store Room could be easily constructed in the roof, which would be accessible from a ceiling hatchway in the hall. A large Verandah at the front, which, besides being comfortable in the summer months, adds charm to your home.
Early pre-fabrication in bungalows. The design (signed R. Norman Shaw) was commissioned by W.H. Lascelles, for use with his patent cement slab system. (Shaw, 1878) The second identified reference to the bungalow in England, it seems likely that the term was picked up following its introduction at Westgate & Birchington, 1869 - 74.

Ground plan.

Scale of feet.

Registered Design, No. 5966.

This Bungalow is constructed of strong steel framing, covered on the outside with galvanized corrugated iron, sheet felted between the iron and the wood framing, and is lined inside with matchboarding. Strong wood floors. Eaves-gutters, down-pipes, locks, and window fasteners included. Erected by our men on purchaser’s light brickwork foundation, he providing assistant labour. Outside woodwork painted three coats. Windows glazed with 21-oz. sheet glass.

Cash Price, about £240 0 0

Exclusive of Stoves, Chimneys, and all inside Fittings.

For Stoves, see page 202.

No. 413.

Registered Design, No. 5975.

This Bungalow is constructed to the same specification as No. 411. Erected by our men on purchaser’s light brickwork foundation, he providing assistant labour.

Cash Price, about £550 0 0

Exclusive of Stoves, Chimneys, and all inside Fittings.

For Stoves, see page 202.

Carriage Paid to most Railway Stations.
The shape of things to come: beach bungalow settlement, c. 1900. By 1902, 'more than two hundred bungalows' had been built in 'the last few years' on the beach between Lancing and Shoreham (Sussex) (Building World, Nov 1, 1902)
Top c. 1910. Many of the bungalows were removed under the provisions of the 1936 Public Health Act (courtesy, Marlipins Museum)

Below c 1910-12.
Bungalow Town, Shoreham: postcards dated c. 1912-14. Holiday makers came (in these cases) from Muswell House, London. Gladys writes (30 August, 1914, from 'The Nugget') 'a hydroplane went over the sea just now and an aeroplane went over our bungalow about 6.30 a.m. this morning and nearly touched the roof'
Railway carriage bungalows, Pagham & Lancing (Sussex) c1910

The 'picturesque' bungalow, Selsey, Sussex, 1915. Visitors sending these cards were from Lancashire and London.
SIGNS OF A SEASIDE BUNGALOW.

BY P. T. HARRISON.

Accompanying illustrations show a bungalow on the beach between Lancing and Shoreham, in this district, which is known as Bunny Town, and is about five miles from Brighton. Three miles from Worthing, more than a hundred bungalows, of various sizes and designs, have been built within the past few years. Of them, however, have been designed for summer residence only, and all are built either entirely of wood or of wood and iron. With very few exceptions the steps in the construction of the bungalows are shown in the accompanying drawings. The materials used, the arrangement of the rooms and the cost of each building is also mentioned here.

Vol. XV.—No. 368.] SATURDAY, NOVEMBER 1, 1902. [Price One Penny.

Designs of a Seaside Bungalow that Cost £60. Fig. 1.—Perspective View. Fig. 2.—Front Elevation. Fig. 3.—Side Elevation.
P.T. Harrison, Bungalow Residences, London, 1909

Harrison, Borough Engineer for Dorchester, had been designing bungalows since c. 1900

3.22
RUBEROID THE ACME OF PERFECTION FOR ROOFING BUNGALOWS.

Ruberoid is a high grade prepared roofing, manufactured in two colours, Red and Green, specially suited for roofing Bungalows and Pavilions. Its qualities have been proved by the test of time: Ruberoid roofs laid eighteen years ago are still in use and improved with age. Ruberoid wears better than iron or zinc, makes a "tighter" roof than slates or tiles, and is cheaper. Ruberoid is not a tar felt, it contains no tar, has no smell, and will not melt or run. It is easily laid, the work offers no difficulties to a builder. The Author's Bungalow at Shoreham, illustrated in this book, is roofed with Ruberoid. Our illustrated Catalogue No. 200 will be forwarded, together with samples, on application.

THE RUBEROID COMPANY LIMITED,
81-83 Knightrider Street,
LONDON, E.C.

BUNGALOWS
Permanent or Portable.

For Permanent Buildings, hollow concrete blocks are cheaper and better in every way than bricks.
For Portable Structures, timber, wire-wove, or Asbestos slabs are all better than iron.
All kinds designed and erected to suit purchasers' ideas, at minimum cost, and advice given as to procedure under any particular form of local bye-laws.

Many acres of beautiful heather and pine land thirty-five miles from London available for bungalows of superior class. Free from bye-law restrictions.
"Inexpensive Holiday Homes" containing numerous photographs, plans, and pen-and-ink sketches, with many pages of descriptive matter and suggestions. Crown quarto. One Shilling nett.

THE WIRE-WOVE ROOFING CO.,
108 Queen Victoria Street, LONDON, E.C.
Changing behaviour on the beach: the move from bathing machines to beach bungalows, 1900 - 1910. The notice at the bottom right of the card of Felpham, near Bognor, indicates that the bungalows, mass produced, with cast iron frame and corrugated iron roof, were being sold freehold at £125.
Top: Royal Bungalow, Snettisham Beach, Sandringham, 1908

Below: Other than the obviously bucolic view through the doorway, the significance of this otherwise anonymous card (c1905 - 10) is in the wicker chair, absence of clutter and feel for 'the simple life'.
Riverside bungalows, 1910-15
Thames Ditton, Kingston on Thames, Wroxton (Norfolk)
THE BUNGALOWS, THAMES DITTON.

BUNGALOW ON THE RIVER SOAR NEAR LONG EATON.
The imperial connection: the bungalow re-exported: West Africa, South Africa, Chile and the Argentine, 1903. (Boulton and Paul, Catalogue, 1903). The connection between the rubber tree on the right, the 'art nouveau' style in which it is portrayed, Ruberoid roofing and the bungalow at home and abroad needs to be made.
IRON BUNGALOW.
No. 90/XY.

Several Buildings to this Plan have been erected in Portuguese West Africa, South Africa, Chili, and the Argentine.

Code Word—Timber.

Price - £430 f.o.b. London.
Cast-iron Pile Foundation £40 extra.
Approximate weight 22 tons.
Approximate measurement 1800 cu. ft.

Cables:
BOULTON, NORWICH, ENGLAND.
A.B.C. Code used, 5th Edit.

IRON BUNGALOW.
No. 00/01.

As supplied to the Transvaal Government.
Four Buildings to this Plan have been erected in Portuguese West Africa.

Code Word—Table.

Price - £395 f.o.b. London.
Cast-iron Pile Foundation £30 extra.
Approximate weight 23 tons.
Approximate measurement 2000 cu. ft.

Cables:
BOULTON, NORWICH, ENGLAND.
A.B.C. Code used, 5th Edit.
BUNGALOW COTTAGES FOR SMALL HOLDINGS.

No. 44. BUNGALOW.
Creosoted sleeper foundations, wood walls, Italian pattern iron roof.

Approximate Price, £185
Independent Range and Open Fire Stove, £10 10s. extra.

No. 45. BUNGALOW.
Creosoted sleeper foundations, wood walls, Italian pattern iron roof.

Approximate Price, £174
Independent Range and Open Fire Stove, £10 10s. extra.

No. 46. BUNGALOW.
Creosoted sleeper foundations, wood walls, Italian pattern iron roof.

Approximate Price, £216
Independent Range and Open Fire Stove, £10 10s. extra.

Carriage Paid to nearest Railway Station and erected by our men.

No. 47. BUNGALOW.
Creosoted sleeper foundations, wood walls, Italian pattern iron roof.

Approximate Price £160
Independent Range £5 10s. extra
The word as symbol, 1890 - 1910: 'getting away from it all'

Design for a Countryside Bungalow, Building News, July 7, 1893

Bungalow Hotel, Weston-super-Mare. Card dated August, 1907

Hightown Bungalows (sic) Near Liverpool. Card dated August 1910
Durplus time and surplus wealth: the week-end and summer bungalow, 1904: architect's version
Knot, prime, stop, and paint 4 coats on woodwork finished in times as directed.
4 coats on 1 square iron bar
4 coats on iron standards
Allow for 4 coats both sides on iron gates
Carried to summary...

**SUMMARY.**

<table>
<thead>
<tr>
<th>No. 1 CONTRACT</th>
<th>£</th>
<th>a.</th>
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</tr>
<tr>
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<tr>
<td>Gardner and joiner</td>
<td>100</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Painter</td>
<td>150</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Contractor’s commission on other trades</td>
<td>96</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Reduced quantities—amount of £ 2196 6 6

Road, Seedley, for Messrs. ————, according to your drawings and specification prepared for that purpose and to your entire satisfaction, for the several amounts as above stated—Signed
And —— also agree to sign the contract and other necessary documents when called upon to do so—Signed

[J. A. Si., willing to contract for and hereby undertake to execute the several works required for the erection of ten cottages at Millford Street, Langworthy...]

**DESIGN FOR A SMALL BUNGALOW.**

**BY W. L. R. HENDERSON.**

The accompanying illustrations show the front elevation and ground plan of a small bungalow. This type of house is prevalent in India and in most of our colonies, and is being increasingly adopted in the United Kingdom as a convenient and comfortable form of summer residence. Where the bungalow is for summer occupation only, it may be built of wood, when it may be made to look very pretty at a comparatively small cost.

The bungalow illustrated is built of brick in Flemish bond, and is roofed with slate. In the colonies, however, the bungalow is almost invariably roofed with corrugated iron, partly for the sake of cheapness, and partly in order to keep the rainwater clean. In many places where seasons of drought are regular, rainwater is very precious and is carefully stored. The pediment over the front entrance is of wood, as also are the supports of the roof of the veranda. The chimneys above the roof are of brick, with a cast cement moulded coping, the remainder of the stacks being rendered in cement. The illustrations are reproduced to a scale of 1 in. to 1 ft.

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SUMMARY. No. 2 CONTRACT.

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<th>6.</th>
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<td>1311 10 0</td>
<td></td>
</tr>
<tr>
<td>As per reduced quantities—amount of tender for 10 houses</td>
<td>2129 10 0</td>
<td></td>
</tr>
</tbody>
</table>

Summer bungalow, 1902: builder's version
FIG. 3. DESIGN FOR A WEEK-END BUNGALOW. BY "MICK"
FIG. 5. DESIGN FOR A WEEK-END BUNGALOW. BY "COUNTRY LIFE"

FIG. 2. DESIGN FOR A WEEK-END BUNGALOW. BY "CRETE"
PLAN OF BUNGALOW COSTING £500-£550. SPECIALLY DESIGNED FOR MESSRS. OETZMANN & CO.

WM. HENRY WHITE, Architect

Built of brick, rough-cast, with red tiled roof, and wrought iron casement windows with leaded lights. See p. 60.


R, Hall, K, LR, Furnished complete or 45 guineas.

VIEW OF BUNGALOW, COSTING £300, IN THE OETZMANN SERIES.

from J. Elder Duncan, Country Cottages and Week-end Homes, London, 1906.
DESIGN No. 13.6.
(COPYRIGHT.)

CUBICAL CONTENTS (approx.), 17,000 cubic feet.

Description.
For week-end or all the year round occupation. A compact, roomy
abode got into the minimum of space in rectangular form. Artistic, yet
economical to erect.

Living Room. Living Room Kitchen. Two Bed Rooms. Bath.
Lavatory and plenty of cupboards.

CUBICAL CONTENTS (approx.), 30,000 cubic feet.

Description.
A compact and conveniently arranged Bungalow.
Sheltered Verandah and Porch to front. Large Living Room
with Dining Recess, with ready access to Kitchen. This is a
feature which is now becoming most popular, and its merits
serve it. Three Bed Rooms. Bath Room. Lavatory and
plenty of Cupboards make this a design worthy of consideration.

CUBICAL CONTENTS (approx.), 36,600 cubic feet.

Description.
An excellent example of a Bungalow Residence, with ample
accommodation for average family.
A gabled Porch suitable for sitting out under, leads to large Living
Room, which gives access to Dining Room at one end and large
Verandah at the other. The Dining Room enjoys a similar but
smaller feature.
Room and w.c. are all contained in this rectangular plan, being
economical in cost of erection and maintenance.

DESIGN No. B.6.
(COPYRIGHT.)

WIDTH OVER ALL . . . . . . 42 ft. 0 in.
DEPTH . . . . . . . . . . . . . 28 ft. 6 in.

DESIGN No. B.13.
(COPYRIGHT.)

WIDTH OVER ALL . . . . . . 37 ft. 0 in.
DEPTH . . . . . . . . . . . . . 51 ft. 0 in.

Counter-urbanisation c. 1914.
from Country Home: n.d.
A book of plans/designs including advertisements for 'Metro-
land', opened up about this time

3.42

DESIGN No. B.3.
(COPYRIGHT.)

WIDTH OVER ALL . . . . . . 63 ft. 0 in.
DEPTH . . . . . . . . . . . . . 42 ft. 0 in.
The bungalow as architectural style: the formal/informal symbolism of the city/country division, with which the idea of the bungalow is bound up, is clearly demonstrated in this and the following illustration, both from the same issue of Building News, October 18, 1907.
CHAPTER FOUR

AMERICA 1880 – 1980
Frontispiece, A.W. Brunner, Cottages or Hints on Economical Building, New York, 1884.

Perspective Sketch of
Bungalow (with Attic)
Arnold W. Brunner Architect
NEW YORK

Front Elevation

Bungalow with Attic

Arnold W. Brunner Architect
NEW YORK

Plan

\[ \text{Perspective Sketch of Bungalow (with Attic)} \]

\[ \text{Front Elevation} \]

\[ \text{Plan} \]
Bungalow as idea and style: that this American design of 1886 pre-dates British architect R.A. Brigg's well-known bungalow development at 'Bellagio' (Surrey) by two or three years presents an enigma still to be resolved.
Bungalow as style: 1893 and 1898 (Illustrations, courtesy Clay Lancaster)

BUNGALOWS, CAMPS and MOUNTAIN HOUSES

Containing a large variety of designs by many architects showing homes in all parts of the country, many of which are suitable only for summer use while others are adapted for permanent residence. Camps, hunting lodges and log cabins are also presented, suggesting designs for vacation dwellings in woods and mountains.

COMPILLED BY
WILLIAM PHILLIPS COMSTOCK

WITH AN ARTICLE BY
C. E. SCHERMERHORN, A. A. I. A., Architect

2d EDITION REVISED
80 Designs with 200 Illustrations

THE WILLIAM T. COMSTOCK CO.
NEW YORK
1908
A Row of Cozy Bungalows in California.

Close to nature: the bungalow in California (Comstock, 1908; postcard, c.1910; Architectural Record, 1905)

THE ENTRANCE COURT—THE HOUSE OF MR. FRANK UNDERHILL.
Montecito, Cal.

Designed by the Owner.
The interiors were developed in the same materials as the exterior and the natural character of the foothills and arroyos became an integral part of the design. The bench to the left in the opening to the dining room represents one of the earliest Greene and Greene furniture designs.

'Craftsman' interiors: 'Mission' furniture and masculine style. (Makinson, 1977, p.73; photograph, courtesy, R. Winter)
The Lindsay bungalow at Altadena is finished inside in this same simple manner—twelve-inch boards, batten...
'Roughing it': the all-male interior (Comstock, 1908; Lazear, 1907)

The Rustic Fireplace of a Bungalow Living Room, at Sierra Madre

The furniture of the room is of Mission type and the decorations consist largely of Indian articles.
THE BUNGALOW FEVER

is still upon us. We have contracted it in daily intercourse with our friends; the germ continues to reach us through our morning mail. We want every one of our readers to own a bungalow. Although our space is limited and the number of our readers is not, we are undismayed at the task before us, and we shall yield to the widespread enthusiasm and continue to publish bungalows so long as our readers impart to us the bungalow bacillus.

Many of our bungalow designs have been specially prepared for the readers of INDOORS AND OUT.

AN ENGLISH BACHELOR'S SUMMER BUNGALOW AT BELLAGIO, OVERLOOKING THE ITALIAN LAKES.

The Hall-Sitting Room is used as a Dining and Drawing Room. All windows are fitted with leaded lights and the woodwork throughout is stained a dark brown. A veranda nearly surrounds the bungalow and the roof is thatched. The space contained by the stone foundation walls is now used as cellarage. Slight changes would make it available for rooms. The cost of the building was under $4,000.

Indoors and Out: special 'Bungalow' number, 1907. The influence of trans-Atlantic imagery - in Briggs' book - is apparent, even though 'Bellagio' is displaced to its original Italy.
The 'rugged' California bungalow. Kress House, 1923 (Photograph, C & O Rice, courtesy, R. Winter) The figure on the left is reputedly Frank Baum, creator of 'The Wizard of Oz'.
TWO BUNGALOWS AT PASADENA, CAL.

TWO SUBURBAN BUNGALOWS IN CALIFORNIA.

'Some California bungalows'
Architectural Record, 18, September, 1905.
"California bungalows": interiors (AR, 1905)

DINING ROOM AND LIVING ROOM OF A BUNGALOW AT PASADENA, CAL.

Horizontal lines, broad eaves, and verandas characterized the California bungalow. Sketch from Clyde Cheney's *Artistic Bungalows*, published by the Architectural Construction Company in Los Angeles, 1912.

(from Chase, 1981)
Halsted house, 90 N. Grand Avenue, Pasadena, 1905.
courtesy of Greene and Greene Library.

THE BUNGALOW IN CALIFORNIA

A Pasadena Home.

Plan of the House shown below.

1. Drawing-room.
2. Living-room.
3. Dining-room.
4. Pantry.
5. Kitchen.
7. 7. Servants' Rooms.
8, 8. Bathrooms.
9, 9, 9, 9. Bedrooms.
Los Angeles, 1929 (Westwood Village, south of Pico Boulevard)

The Fragmented Metropolis: Los Angeles (Fogelson, 1967, p. 142)

32. The suburban vision

A suburban retreat

THE DECEMBER 1909
BUNGALOW
MAGAZINE

10¢ PER COPY
VOL: 1 NO. 10
30 NEW ILLUSTRATIONS
READ "THE WILSON BATH RM"
H. L. WILSON PUBLISHER-LOS ANGELES
Craftsman Bungalows
Edition de luxe
A collection of the latest designs
Dedicated to
"The Lover of a Convenient Home"

The bungalow as all-American suburban mass home: the pattern book (Jud Yoho, Craftsman Bungalows, 1913, 1916)
One test of the popularity of a bungalow is the number of people who have built in a similar style. In our city it is built with many variations in the detail of interior finish. The porch is of course the original and attractive feature of this bungalow. Properly constructed, the gable on the roof is a great success, but the plans must be followed very carefully. Although the ceiling in the second story is low, ample room is provided for two small chambers and a sleeping porch. The exterior is sided with sawed shakes laid 12 inches to the weather and stained a dark gray, which forms a striking contrast to the white trim of the smooth woodwork. This is one of our very best houses.

Bungalow Design No. 2011

Full and complete working plans and specifications will be furnished for $7.00. Cost of this bungalow is about $1,000, according to the locality in which it is built.

Living-dining room and (opposite) precut model house. (From Modern Homes, a catalogue of furniture and prefabricated houses available from Chicago's Sears, Roebuck and Company. Courtesy of the Chicago Historical Society.)

Bungalow by mail order: Sears Roebuck catalogue, c1910 - 20 (Wright, 1981, pp. 132-3)

Figure 27. Owner-built bungalow and plan (opposite) in a Chicago suburb. (From Isabel Bevier's home economics textbook, The House, 1906.)
The Californian image in Britain (Building News, May 24, 1912, pp. 725-6)

Full and complete working plans and specifications will be furnished for $6.00.
Cost of this bungalow is about $1,100, according to the locality in which it is built.

The possibilities of American influences on Britain are discussed in Chapter Five.

Bungalow Design No. 2006

Price of Plans and Specifications $6.00

Images from Hodgson, 1916 and Koch, 1908 and reality at Peacehaven, late 1920s (photo, ADK, 1981)
With bolts left sticking up around the edge of this floor, the framework of the building can be bolted down and you have a garage standing on a cement platform, which is very convenient construction.

![Diagram of a bungalow garage]

**Figure XXI.**

**TABLE OF AUTOMOBILE SIZES.**

<table>
<thead>
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<th>Kind</th>
<th>Length (L)</th>
<th>Width (W)</th>
<th>Height (H)</th>
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<tr>
<td>Small Electric</td>
<td>10' 7&quot;</td>
<td>5' 6&quot;</td>
<td>7' 2&quot;</td>
</tr>
<tr>
<td>Large Electric</td>
<td>13' 0&quot;</td>
<td>5' 8&quot;</td>
<td>7' 2&quot;</td>
</tr>
<tr>
<td>Small Four Cylinder</td>
<td>14' 10&quot;</td>
<td>5' 6&quot;</td>
<td>6' 8&quot;</td>
</tr>
<tr>
<td>Large Four Cylinder</td>
<td>14' 10&quot;</td>
<td>5' 8&quot;</td>
<td>7' 0&quot;</td>
</tr>
<tr>
<td>Small Six Cylinder</td>
<td>14' 1&quot;</td>
<td>5' 8½&quot;</td>
<td>6' 9&quot;</td>
</tr>
<tr>
<td>Large Six Cylinder</td>
<td>15' 10&quot;</td>
<td>5' 8&quot;</td>
<td>6' 10½&quot;</td>
</tr>
<tr>
<td>Ordinary Eight Cylinder</td>
<td>15' 5&quot;</td>
<td>5' 8&quot;</td>
<td>6' 10½&quot;</td>
</tr>
<tr>
<td>Twin Six</td>
<td>16' 5&quot;</td>
<td>5' 8½&quot;</td>
<td>7' 0&quot;</td>
</tr>
</tbody>
</table>


Though the owners of early bungalows had cars, they rarely had garages. In 1923, C.E. White (The Bungalow Book) gave some thought to the problem of the automobile which, as Chicago sociologist, E.W. Burgess, had discovered in his famous 'concentric zone' theory of the city of 1925, was making a big impact at the fringe. That his 'commuters' zone' was also the 'bungalow section' is sufficient comment on the inter-connection between house-type, personalised transport and bourgeois theories of the city.

**4.26**
HELP FOR THE MAN WHO WANTS TO BUILD

SAFE PLUMBING FOR YOUR HOME IS MONEY SAVER

Safe plumbing for your home is an absolute necessity. If leaks, breaks, or freecups occur after the piping has been enclosed by the walls, you may have no end of trouble and expense. Don't forget that a good job of plumbing is not only "good" for the health of your family, but a modern requirement for home comfort, convenience and sanitation.

No home can be called "modern" without provision for bath, lavatory, sinks, laundering, and adequate disposal for refuse. Homes without plumbing are difficult to sell. They are not considered as desirable property investment by people who loan money.

Two Things to Be Sure Of

The dollars you spend for your plumbing and fixtures represent a first cost. If your plumbing is well installed and your fixtures and system of quality standard materials, your plumbing should be permanent; your upkeep cost low. Leaks, breaks and "freecups" are preventable if, when your home is built, the plumbing is properly installed.

Just because most of your plumbing is covered by walls and floors is no reason why you should underestimate the importance of the plumbing work. The fact is you need to know some of the main things about plumbing—what to expect from it, what kind of fixtures to insist on, their respective merits and service, if you hope to spend your dollars wisely.

House design by the Architects Small House Service Bureau, 1920s. (see Landscape, 25, 3, 1981).

Copyright, 1922, by the Architects Small House Service Bureau.

WHAT YOU MAY WANT TO KNOW ABOUT BUILDING

Questions addressed to this paper will be answered by the Architects Small House Service Bureau of the American Institute of Architects and endorsed by the Department of Commerce, United States Government. In case of disagreement, consult the author.

Q.—We are about to build our house and do not know whether to make the garage a part of the house or to build it separately. What is your advice about this?

A.—A garage built as a part of the house will generally be more expensive than one built separately. The former has to be constructed of the same materials, have the same requirements set for it as the house, and is subject to the same kind of abuse. A detached garage, done properly, is likely to be less expensive. Attached garages can be more readily heated and is usually cheaper than the detached type. It is very difficult to treat the detached type so that it looks well with the rest of the house.

Q.—The brick coping on the terrace around my porch is continually coming off. Is there any way I can repair this so as to have a permanent job?

A.—This is a detail which requires careful planning with brick, mortar, and grout. The brick or mortar used must be very hard and the joints properly pointed. The top courses of brick must be well filled with mortar, well cut, and the joints properly pointed. The top course of brick may be replaced by plain mortar. If the coping is made of bricks laid on edge, the mortar on the coping should be smooth and even. If the mortar is not smooth, the bricks should be replaced.

Q.—Is it safe to give up the title of...?
Bowen Court, Pasadena, California, designed by Arthur and Alfred Heineman in 1911. Thirty-five bungalows, each slightly different, are arranged on an L-shaped lot. The central pedestrian path in the court is a special feature. Automobiles were kept out of sight on a side driveway.

The layout of St. Francis Bungalow Court, Pasadena, 1909. Sylvanus Marston's early plan included a central drive for automobile access. Each of the cottages around the court was an individual design. From Architect and Engineer, October, 1919.

Bungalow court, Pasadena, 1909. (Chase, 1981)

The emergence of alternative styles (Comstock, 1908)
Below Hickox House, Illinois, 1900, by the influential American architect Frank Lloyd Wright. This was one of his 'prairie houses' which, he explained, should accentuate the natural beauty of the prairie through 'gently sloping roofs, low proportions, quiet sky lines, suppressed heavy-set chimneys and sheltering overhangs, low terraces and out-reaching walls sequestering private gardens'.

Right The Gage Building in Chicago, begun in 1898–99, one of Louis Sullivan's brilliantly designed commercial buildings.


It was not so much that FLW helped to make the bungalow but that the bungalow helped to make FLW. He was born the same year (1869) as the bungalow was introduced to the West.
The Gamble house achieved its low, sensitive relationship to the rolling site through the utilization of strong horizontals expressed in the cantilevers, roof lines, broad bands of case-ment windows, sleeping porches, outdoor terraces, and wide stairways.

Architects' bungalows: Greene and Greene, California, 1904, 1908. (Makinson, 1977).
The California bungalow conserved, 1980
(photograph, Courtesy, R. Winter)
The bungalow in the Pacific, 1840 - 1910. (Also next page)
Bungalow, Honolulu, 1854 (engraving, P. Emmiert, lithograph, San Francisco, 1854)
I am indebted to Clay Lancaster for this illustration.

Captain Cook was the first European to make contact with the Hawaiian Islands in 1778. From 1820, the native Hawaiians were increasingly influenced by New England missionaries and by mid century, 'there were frame houses, horse drawn vehicles, schools, churches, taverns and mercantile establishments.' (Encyclopaedia Britannica, 1974)

The British occupied Honolulu in 1843. Increasing American influence was followed by annexation in 1898. Resident Americans took the California bungalow there in the following two decades. (Postcard, c. 1910)
CHAPTER FIVE

ENGLAND 1918 - 47
Builders' vernacular
Fig. 80.—Design for a Riverside Bungalow.

Architects' bungalows (Ideal Home Book of Plans, 1936; Phillips, 1920)
"COSY" BUNGALOW

as erected at

Daily Mail Ideal Home Exhibition at Olympia 1923

By SOUTH WESTERN APPLIANCE CO
High Street, Fulham S.W. 6.
Bungalow as property: ownership appeal
AN
I D E A L  B U N G A L O W,

WITH 2 GOOD RECEPTION ROOMS, 3 BEDROOMS,
KITCHEN, BATH ROOM & INSIDE SANITATION.

HOW TO BUILD IT WELL AND AT LOWEST COST
AND PAY FOR IT, IN A FEW YEARS AS RENT
BY
ECONOMIST.
1927
Outer suburbs:
Hillingdon (1920s)
West Drayton (1980)
"Fibrent" Asbestos-Cement Tiles are undoubtedly the most economical of all roofing materials. They are extremely light in weight, being only 22 lb. to the square yard when fixed, against 140 lb. per square yard for Sand-faced Tiles, or 67 lb. per square yard for ordinary Slates.

A saving of over 40 on Roof Construction is effected owing to the rafters being spaced at 24 in. or 30 in. Centres instead of 12 in. to 15 in. spacing for other Tiles or Slates.

"Fibrent" Roofing Tiles are guaranteed against disintegration. They are fireproof and everlasting and improve with age. The cost of upkeep is Nil. "Fibrent" Roofing Tiles are easily and perfectly fixed and do not scale or crack.

These Tiles are made in the following colours:
- Natural Grey
- Red
- Blue Black

The feature which will appeal to all Housing Committees is that in erecting 2,000 Houses no less than £24,000 may be saved.
BUNGALOW as erected at
Daily Mail Ideal Home Exhibition at Olympia 1923.

By VI-BOARD (SALES), Ltd.,
Abbey House,
6-8, Victoria Street.
Westminster, S.W.1.

Consulting Architects: Constantine & Vernon. F-A.R.I.B.A.,
82, Mortimer Street, London. W.
How to Build a Bungalow

The dwelling under total control.
Peacehaven, 1980.
Compact arrangement of the limited space in a bungalow dining-room


Conversion of a bathroom to a smoking lounge and sculleryette
THE BABY GRAND IN A BUNGALOW

The bungalow bedroom

The extending bungalow for week-end parties
"Hoosier"

THE KITCHEN CABINET
THAT SAVES MILES OF STEPS.
The "Hoosier" has over 40 work-reducing features, many of them exclusive "Hoosier" patents. It provides places for 400 articles, within arm's reach, and enables the housewife to sit restfully at her work — the most used articles are nearest at hand.
The "Hoosier" is in daily use in over two million American Homes, where it is now looked on as a necessity for the kitchen. Every day it is becoming more and more popular in England.
The "Hoosier" is now offered at a price within the reach of all who believe in Kitchen Comfort.

Send to-day for Descriptive Illustrated Folder, and let us put you in touch with the nearest Retailer.

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A BUNGALOW NEAR THE SEA

The late Cyril Check, A.R.I.B.A., Architect

Designed to be built on a seaside site at Sandbanks, near Bournemouth, this bungalow has one large living-room (22 feet by 14 feet), occupying a central position on the garden side. The rooms around do not open directly off it, but from the two short passages that are provided. There are three bedrooms, measuring respectively 14 feet by 11 feet, 11 feet square, and 13 feet 3 inches by 11 feet. A bathroom (with W.C.) is included as a separate room between two of the bedrooms, and is thus handy for all three.

The kitchen is well schemed with a sink and draining boards under the window. Cooking is done with a gas stove, and the working arrangements are facilitated by the close proximity of the larder and coal store.

There is a verandah opening with French windows out of the living-room, and this is so well sheltered that open-air meals could be taken in it in all kinds of weather.

The verandah for open-air meals, (Phillips, 1920)

Fig. 60.—A Bungalow near the Sea.
GOLDSWORTHY'S
IDEAL
BUNGALOWS
are now being built upon
The Thorpe Bay
Garden City Estate,
Southend-on-Sea

This magnificent new Estate (see plan) is being developed on Garden City lines in keeping with Thorpe Bay's well-known reputation of a modern, residential and health resort.

The Corporation trams in the picturesque Boulevard of Thorpe Bay pass the entrance to Barnstable Road and run to Southend, Westcliff, and Leigh.

This Seaside Town is recommended for its Sea Air and Well Water Supply, by Physicians and Doctors alike, as being one of the healthiest seaside resorts in England, the water supply being taken from artesian wells, and contains medicinal properties for the cure of many blood disorders—notably rheumatism.

Gravel Soil

Prices from £950 Freehold

Sites to suit all Clients

My designs are thoroughly up-to-date, every inch of space being utilised to advantage, call or write—

F. W. GOLDSWORTHY,
Station Estate Office
THORPE BAY,
SOUTHEND-ON-SEA

Conveniently arranged and attractive Bungalows, situated in Barnstable Close, Thorpe Bay, within two minutes walk of Midland Railway Station, five minutes Golf course, Tennis Courts, Thorpe Bay Beach and Esplanade. They are well built of sound brickwork on concrete foundations, good seasoned timber, boarded under the roof tiles, sand-faced tiles, narrow grooved flooring, solid frames, iron sashes, lead lights, red brick fireplaces, picture rails, china shelves, recessed seats, heavy beam ceilings, all stained throughout, Electric light, Gas and Water laid on. Telephone if required, Drains connected to Council's Main Sewers.

Daily Mail
Bungalow Book,
1923

5.19
Seaside bungalows
MILSTAN BUNGALOW (by the Sea), SHERINGHAM, Norfolk
To be let furnished. Particulars: Mrs. W. Stoneham, Milstan, Spinney Hill Avenue, Northampton

Built to let: the seaside holiday bungalow, 1930s and 1920s

For Particulars of Bungalows apply
F. W. Goldsworthy, The Broadway,
London Road, Leigh-on-Sea.
TYPES OF PEACEHAVEN BUNGALOW HOMES

"ROSEDENE."
The artistic bungalow-home built by Mr. T. W. Marshall in Firle Road, Peacehaven.

BUNGALOW HOMES
A HELPFUL SELECTION OF DESIGNS FOR BUNGALOWS

EVENYONE likes to have their own ideas carried out both in plan and appearance of their Bungalow. In the Architectural Department of Peacehaven Estates, a large selection of plans other than these presented here are always available for reference, and every assistance is given to adapt any of these to the special requirements of clients.

Design No. 043.
Design No. 014.
Plan No. 043.
Design No. 012.
Plan No. 014.

Peacehaven Estates, Peacehaven. The land of sunshine and health, London, c. 1927 (for this & next two pages)
HAVE YOUR OWN SEASIDE HOME

On the South Coast — It will pay for itself

£50 down, the balance as rent to approved purchasers, on the BEACH ESTATE, TELSCOMBE

Facing the Open Sea. Close to Brighton, with ten-minute 'bus service.

... Live on the glorious South Downs for ...

HEALTH AND HAPPINESS

Every site commands views over Sea and Downs

For full particulars apply to

THE SECRETARY, PEACEHAVEN ESTATES, LTD.
The illustrations appearing hereunder were given in an early number of the “Downland Post and Sussex Magazine” now published by Peacehaven Estate, Ltd. The imagination of the artist has been far outstripped by realities. No one who saw Peacehaven in 1921 ever imagined that it would develop in the amazing manner which it has done. An inhabitant of 1921 returning to-day would certainly have to ask his way of the point duty policeman on our main road.

From the Downland Post and Sussex Magazine.

---

For years Captain Stubb’s home from sea walked from Newhaven to his cottage across the deserted downs.

Them, returning from a long voyage, he found a cozy bungalow in his path.

And next time he found more bungalows — and houses — and trees!

After another voyage he found a church.

He went to China — came back, and had to ask his way home!

Say, Bo! Where is Hill Cottage?

And after the next trip.

Ah!
Peacehaven, 1930s (Aerofilms, Ltd)
RIGHT ANGLED IN PLAN

Example of compact planning and good disposition of rooms including living-room and two bedrooms all on one floor.

For permanent or week-end and holiday occupation, this bungalow gives good accommodation for a small family. Its plan might be described as an arrow head pointing north.

This allows a good south and west aspect to the living-room with its large bow window taking full advantage of the situation. Folding and sliding doors portion off the dining recess and enable the two rooms to be used as one.

All the rooms are grouped round the hall, which is lit by two windows flanking the front door. It is a bungalow which makes housework easy.

<table>
<thead>
<tr>
<th>Accommodation</th>
<th>ft. in. x ft. in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hall</td>
<td>10 0 x 10 0</td>
</tr>
<tr>
<td>Living-room</td>
<td>13 6 x 12 0</td>
</tr>
<tr>
<td>Dining Recess</td>
<td>10 0 x 6 0</td>
</tr>
<tr>
<td>Kitchen</td>
<td>11 0 x 10 0</td>
</tr>
<tr>
<td>No. 1 Bedroom</td>
<td>12 0 x 11 0</td>
</tr>
<tr>
<td>No. 2</td>
<td>10 0 x 8 0</td>
</tr>
<tr>
<td>Bathroom</td>
<td>7 6 x 7 0</td>
</tr>
</tbody>
</table>

Approximate cubic contents 17,550 cubic feet.

Middle class weekend retreat, 1936
A RAILWAY CARRIAGE BUNGALOW
SUGGESTING HOW A DISUSED CORRIDOR COACH MAY BE ADAPTED

FIG. 2.—GENERAL PLAN. SEE ELEVATIONS A, B, C AND D.

FIG. 3.—ELEVATION A, SHOWING LOCKER AND COUCH
AND (AT LEFT) CORRIDOR OPENING.

FIG. 4.—ELEVATION B, SHOWING LOCKER
AND COUCH, TABLE AND DRESSER.

FIG. 5.—ELEVATION C, SHOWING DRESSER; ALSO
CORRIDOR OPENING (RIGHT) AND WALL CHAIR
SPACE (LEFT).

from The Woodworker, 24, 1925

FIG. 1.—SUGGESTION FOR BUNGALOW ADAPTED FROM
A DISUSED RAILWAY CORRIDOR CARRIAGE.

FIG. 1.—A BUNGALOW BUNK.

FIG. 2.—FOOT END.

FIG. 3.—HEAD END.
SEASIDE OR WEEK-END BUNGALOW

SIZE, EXCLUDING VERANDAH, 12 FT. 6 INS. BY 10 FT. 6 INS. HEIGHT TO RIDGE, ABOUT 13 FT.

$5.29$

FIG. 2. PLAN OF HOUSE AND VERANDAH, SHOWING POSITION OF BED IF REQUIRED

SELESEY, EAST BEACH

$5.30$
Weekend retreat: Shepperton (Thames), Jaywick Sands (Essex).
Below. The pay-off: owners of early 20th century beach bungalows at Hayling Island (Sussex) realise the value of the land. 1981

(Portographs, ADK)

Self-improvement: 1920s bungalows in 1980
Bungalows by the sea: West Wittering
An Old Whitewashed Cottage in North Wales and—

The bungalow under attack
(C. Williams-Ellis, England and the Octopus, 1928)

A Costly New Bungalow in the Same Neighbourhood—no Vulgarity spared.

The "COTTABUNGA"

This charming bungalow cottage delivered, carriage paid, to any goods station in England or Wales, ready to erect, for £245:10 nett.

"COTTABUNGA" buildings may be seen dotted all over the Countryside, North—South—East—West, and are giving universal satisfaction. No better value at the price is possible, and if you would enjoy the comforts and luxury of this artistic residence this coming summer place your order NOW.

Our illustrated Catalogue, No. 103, containing full particulars and a full range of other Bungalows, Pavilions, Motor Houses, Chalets, etc., post free to any address.

BROWNE & LILLY, LTD.
THAMES SIDE, READING
Telegrams: Portable, Reading. Phone: Reading 587
TYPES OF HOUSING
 WHICH DEFACE THE BEAUTY OF THE PEAK

Main faults: red machine-made tiles and red brick; unpleasant half-brick, half-stucco walls; badly-proportioned circular bay windows; ugly and ill-placed chimneys; unnecessary and ornamented front gables; pretentious and over-decorated look.

Main faults: pink diamond-shaped asbestos slates; red brick quoins and base; top-heavy pyramid-shaped roof; insignificant walls; tall straggling chimneys; fussy and over-decorated front doorway and bay windows; fancy gates and railings.

Main faults: red pressed brick and red machine-made tiles; pronounced vertical lines and unfinished look of the design; ugly and unnecessary front gable; badly-proportioned circular bay window; pretentious ill-shaped doorway and oriel window.

Main faults: red diamond pattern asbestos slates; imitation "half-timber" work; ornamental barge-boards and veranda brackets; disorderly assortment of huts of all shapes and sizes; flimsy, untidy and over-decorated appearance.

Council for the Preservation of Rural England, The Peak District. Its scenery, disfigurement and preservation, Sheffield, 1932
COTTAGES. OLD STYLE AND NEW
DIGNITY

Old cottages
at Edale.

and

IMPUDENCE

THE COUNTRY BUNGALOW. SUITABLE AND UNSUITABLE

The traditional
style.

The long, low, simple shape of this pleasant bungalow is particularly suitable for hill country.

Note the use of the "narrow-span" plan.

THE EDGE OF THE MOORS. NEAR SHEFFIELD.

BENEATH WIN HILL. ASHOPTON.

These bungalows
have asbestos
roofs

which shatter
the peaceful
loveliness of
their
surroundings.

This smug suburban bungalow would be discordant in any rural area. The squat box-like form and ugly pyramid-shaped roof are the direct result of a square or "wide-span" plan.

CPRE, 1932

5-40
HOW NOT TO DEVELOP AN ESTATE

"Buckinghamshire Advertiser"

A block of four cottages has sufficient site to look dignified.
Note the simple shape, the restful, homely appearance, the quiet coloured roof, and the walls built of the traditional stone rubble.

MAKING MAIN ROADS HIDEOUS

"Buckinghamshire Advertiser"

Badly shaped bungalows which have glaring red roofs. This doll's house type of building is sadly out of place on the edge of a moor. The smaller a country building is, the plainer it should be.

Design & Industries Association, The Face of the Land, 1930
Tiled Roof, Half Timbered Walls

A bungalow for a small family, designed for a rural setting.

Accommodation:

<table>
<thead>
<tr>
<th>Room</th>
<th>H ft</th>
<th>W ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hall</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Sitting-room</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>Dining-room</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Kitchen</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>No. 1 Bedroom</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>No. 2 Bedroom</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>No. 3 Bedroom</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>Bathroom</td>
<td>8</td>
<td>0</td>
</tr>
</tbody>
</table>

Approximate cubic contents: 14,090 cubic ft.
WITH a ROOF of THATCH

Here is a design for a tiny little bungalow of old world design which would aptly take its place in some rural spot. The thatched roof makes it delightfully cool in summer.

<table>
<thead>
<tr>
<th>Room</th>
<th>ft.</th>
<th>in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living room</td>
<td>20.0</td>
<td>12.0</td>
</tr>
<tr>
<td>Kitchen</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Bathroom</td>
<td>7.0</td>
<td>6.0</td>
</tr>
<tr>
<td>No. 1 Bedroom</td>
<td>12.0</td>
<td>12.0</td>
</tr>
<tr>
<td>No. 2</td>
<td>12.0</td>
<td>12.0</td>
</tr>
</tbody>
</table>

Approximate cubic contents: 14,000 cubic feet.

On the following eight pages are feature two houses designed by Guy Church, F.R.I.B.A., giving a glimpse of the interiors of the principal rooms as well as the exteriors.

Type No. 152.

5.43
A Bungalow in Contemporary Style

Another example of a right angled plan, which gives an elevation of distinctive design.

Sweeping curves are a unique feature of the elevation. In addition to their decorative value, they make practical use of the site. The front door faces due south, so the windows of the two main bedrooms and the lounge embrace an outlook swinging round the points of the compass from east to west.

The bungalow is built of brick rendered with Snowcrete. It has a flat roof which can be used as a promenade to take advantage of fine views. Central heating is supplied from a boiler installed alongside the cooker. The lounge, which is also used as a dining-room, is served by a hatch from the kitchen.

Accommodation.

<table>
<thead>
<tr>
<th>Room</th>
<th>ft. in.</th>
<th>ft. in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hall</td>
<td>14 0 x 6 0</td>
<td></td>
</tr>
<tr>
<td>Lounge</td>
<td>18 0 x 16 0</td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td>16 0 x 10 0</td>
<td></td>
</tr>
<tr>
<td>No. 1 Bedroom</td>
<td>15 0 x 10 0</td>
<td></td>
</tr>
<tr>
<td>No. 2</td>
<td>15 0 x 10 0</td>
<td></td>
</tr>
<tr>
<td>No. 3</td>
<td>9 6 x 9 6</td>
<td></td>
</tr>
<tr>
<td>Bathroom</td>
<td>6 9 x 6 1</td>
<td></td>
</tr>
</tbody>
</table>

Approximate cubic contents
18,600 cubic feet.
Communication gap: 'architecturally' preferred images of dwellings, 1937. The photographer was evidently unable to erase evidence of the real innovation of the times. Where 'modernism' went out of date, the bungalow became increasingly more popular.

(Martin S Briggs, How to Plan your House, EUP, London, 1937)
Man in tussle over bungalow demolition has fine cut

A £1,760 fine imposed by magistrates on a man who refused to demolish his bungalow was cut to £176 by a judge at St Albans Crown Court yesterday.

John Andrews had been fined £10 a day for not obeying an order to demolish the building because it was erected without planning permission.

But Judge Stockdale told him on appeal: “This is a larger fine than those imposed on many serious criminals.” He reduced it to £1 a day, or £176.

Earlier, Mr Stephen Aitchison, for Dacorum District Council, Hertfordshire, said that Mr Andrews should have demolished the bungalow. Twice he had been refused planning permission to replace an existing wooden bungalow on the site in Potten End, near Hemel Hempstead.

The judge said: “It is not appropriate for this court to go into great detail about such breaches of the law. We are concerned with litigations, and whether there has been a deliberate flouting of the law, and there has certainly been nothing of that kind. He has been in breach, but that is only of a technical nature.”

After the hearing, Mr Andrews, car delivery agent of Water End, Rickmansworth, said the hearing was his first victory in a three-year battle with planners.

Mr Lawrence Marshall, for Mr Andrews, said: “Professional advisers thought that was sufficient. But in September that year, like a bolt out of the blue, came a notice from the council saying planning permission was required.”

Work stopped immediately, although £10,000 had been spent. An enforcement order followed, saying that the building should be pulled down.

In January Mr Andrews was fined £100 for failing to comply with the order. In July the fine of £1,760 was imposed.

Mr Marshall maintained that Mr Andrews was told at one stage that if he had rebuilt the original bungalow piece-meal, “one wall at a time”, he would have been all right.

Mr Andrews, who has complained to the Ombudsman, said outside the court: “I am hoping that common sense will prevail. I live in a caravan on the site and obviously it would be better for that to go, rather than the bungalow, and that is what the local people want. "I am sure there is a compromise solution.”
CHAPTER SIX

AFRICA 1880 - 1980
Swedish design for tropical house, late 18th century (Kubler, 1944)

"Pre-bungalow" tropical dwellings for Europeans (Murray, 1895)

The Indian Bungalow. 'the one perfect house for all tropical countries' (Murray, 1895)
Early pre-fabricated ('portable') dwellings made little allowance for either the climate or life-style in the countries to which they were sent.

The iron palace for King Eyanbo was something of an exception (Herbert, 1978)
ILLUSTRATION OF PLANTER'S OR OVERSEER'S IRON HOUSE, AS DESIGNED BY FRANCIS MORTON AND CO. (LIMITED) FOR HOT CLIMATES, CONSTRUCTED ON FRANCIS MORTON AND CO.'S (LIMITED) IMPROVED PLAN TO SECURE THE NECESSARY COOLNESS, AND COMFORT OF THE OCCUPIERS.

Prices on Application. Please state accommodation required, number of Rooms, sizes of Rooms, &c.

Our only correct address is—

FRANCIS MORTON & COMPANY, LIMITED, NAYLOR ST., LIVERPOOL.

Glasgow Branch—Bank of Scotland Buildings, George Square.

Established over Quarter of a Century.

6.4
IRON BUILDINGS, AS DESIGNED AND PREPARED BY FRANCIS MORTON AND CO. (LIMITED) FOR THE QUNAPIRO GOLU MINING COMPANY,
SOUTH AMERICA, H. BANKART, ESQ., C.E., DIRECTING ENGINEER.

Special Designs and Estimates on application.

WORKMEN'S BARRACK & DINING HALL, COVERING 155 X 60 FEET, 28 FT. HIGH.

MACHINERY & STAMPING BENDS, COVERING 125 X 74 FT, 28 FT. HIGH.

HOSPITAL.

ENGINEERS RESIDENCE, COVERING 80 X 41 FEET, 22 FT. HIGH.

PLAN.

SECTION.

Our only correct address is—FRANCIS MORTON & COMPANY, LIMITED, NAYLOR ST., LIVERPOOL.

Established over quarter of a century.

Glasgow Branch—Bank of Scotland Buildings, George Square.

6.5
BUNGALOW  Maison Coloniale  Casa de Campo

No. 661.

As supplied to the Transvaal Government.

Specification "A."  
Code—TABLE.

Specification "D."  
Code—TABLED.

Specification "E."  
Code—TABLEE.

Approx. Shipping Measurement  
1850 cubic feet.

Approx. Dead Weight  
20 tons.

For prices see separate list.

For prices see separate list.

For prices see separate list.

BUNGALOW  Maison Coloniale  Casa de Campo

No. 662.

As supplied to the Transvaal Government.

Specification "A."  
Code—TABLE.

Specification "D."  
Code—TABLED.

Specification "E."  
Code—TABLEE.

Approx. Shipping Measurement  
1850 cubic feet.

Approx. Dead Weight  
20 tons.

Pour les prix voir la tarif.

Por los precios vea lista.

For prices see separate list.
'Hill station', Sierra Leone, early 20th century (courtesy, Royal Commonwealth Society)

Accra, 1903: the move from the old city to the bungalow suburb of Victoriaborg (Acquah, 1958).
Zulu village, South Africa, before 1936. By the mid-twentieth century economic and political changes had led the Zulu to adopt mixed farming, and this was reflected in a reduction in the size of the cattle kraal in their villages and atrophy of the outer heavy timber stockade.

Zulu homestead near Mahlabatina–Ngoma road, South Africa, 1953.

Zulu house under construction, South Africa, about 1902.

Traditional African dwelling and settlement forms, South Africa (Denyer, 1980)
Nupe chief's house, Nigeria, c. 1940. Social and spatial organisation. (Denyer, 1978)


218 Plan of Nupe chief's house, central Nigeria, about 1940.

6.12

Matakam homestead, Cameroon, 1950.
Social and spatial organisation (Denyer, 1978)
Hausa old city, Kano, northern Nigeria, about 1960. Kano has throughout its history been one of the major cities.

23 Rectangular plan; mud brick walls; flat or vaulted mud roof reinforced with wood or palm fronds; sometimes two-storeyed; buildings arranged within walled courtyards, sometimes forming part of courtyard wall.

Examples: urban Hausa, urban Kanuri (Nigeria); Upper Nigertowns such as Djenne, Timbuktu (Mali); southern Mali; western Upper Volta; Mauritania.


For detailed taxonomy of African dwelling types, see Denyer, 1978. Appendix.

Ethnic segregation in African cities (Hull, 1976, p. 76)


a. Kong—(northern Ivory Coast) A large caravan city which reached its zenith in the eighteenth century.
'Tropical dwellings' exported from England, late 19th, early 20th centuries.
(Top: Colonial Office, 1909; Cooper, catalogue, c1900; below: Royal Commonwealth Society, Album, Uganda, 1906, 133)

For Tropical Climate.

For tropical climes our Buildings are constructed with a double roof, each end being covered with perforated zinc in order to admit a through current of air. This not only assists to cool the interior, but may be made to act as a thorough ventilator.
Baptist Missionary Society.
Missionary's House, Bopoto, Upper Congo, postmarked 1908.

6.18

Cooper, catalogue, c1900
NEW BARRACKS, CALABAR.
OPEN VERANDAH BUNGALOW.

FRONT ELEVATION.

SCALE 1 INCH = 16 FEET.

SECTION ON LINE A.B

Smaller type of officer's bungalow, c 1906
( Colonial Office, 1909)

(E. 3) NEW BARRACKS, CALABAR—OPEN VERANDAH BUNGALOW
A very good style of house. The bath rooms should be in the corner, where they are
they obstruct ventilation of the bed rooms; they will probably have to be removed.

Weller & Graham, Ltd. Litho. London.
EUROPEAN BUNGALOWS.
SAPELE.

SCALE 40 FT TO 1 INCH.

(C.3) EUROPEAN BUNGALOW, SAPELE.

ABOUT THREE YEARS OLD, ONE OF THE FIRST TYPE OF PERMANENT BRICK HOUSES. THE SIDE VERANDAHS HAVE BEEN ADDED LATER - THE ENDS OF THE HOUSE BEING WITHOUT PROTECTION RENDERED SOME ROOMS ALMOST UNINHABITABLE AT CERTAIN HOURS OF THE DAY. THE VERANDAHS ARE OF THE CORRECT OPEN TYPE BUT THE ROOMS ARE TOO SMALL; IT WOULD HAVE BEEN BETTER TO HAVE HAD LARGER ROOMS AND TO HAVE REDUCED THE SIZE OF THE VERANDAHS PROPORTIONATELY. HAD THE BASEMENT BEEN RAISED 3FT MORE THE ACCOMMODATION WOULD HAVE BEEN DOUBLED FOR ALMOST THE SAME SUM OF MONEY. THE BASEMENT SHOULD HAVE BEEN EITHER LOWER OR HIGHER TO GIVE MORE SPACE, EVEN AS IT IS BASEMENT PROVIDES FOR BOX AND STORE ROOMS.

HEIGHT OF EAVES 7FT

SCALE 20 FT TO 1 INCH.

(C.4) EUROPEAN BUNGALOW, WARRI.

HAD IT BEEN POSSIBLE TO BUILD THESE HOUSES FOR £500 EACH THEY WOULD HAVE BEEN VERY SATISFACTORY BUT THE COST HAS BEEN CONSIDERABLY MORE; THEY ARE OF BRICK BUT OF VERY LIGHT CONSTRUCTION; THEY PROVIDE COMFORTABLE QUARTERS, BUT HAVE THE DISADVANTAGE OF BEING ALMOST ON THE GROUND AND ARE NOT SUITABLE FOR FLAT AND DAMP PLACES. THE ACTUAL COST HAS BEEN ABOUT £750 IN LIEU OF £500.

ESTIMATED COST £500.

HEIGHT TO EAVES 7FT
First Floor Plan.

Government House
Calabar,
Southern Nigeria.

A very good type of wood and iron house sent out from England for the High Commissioner. All the fittings are of the very best and most expensive description; it must have cost a great deal of money. It is not a comfortable house to live in. Its defects are a closed-in verandah—none of the windows of which go down to the ground, there is therefore no proper ventilation to the house and the interior rooms are very dark with the result that all the occupants live in the hot verandahs and never go into the bed rooms or dining room except for dressing and eating. The bed rooms have no openings into the dining room except by solid doors; they have not good ventilation and are therefore very hot. The roof is badly designed and the house is like a hot house in the afternoon. The position of the drying room and store interferes with the ventilation in the centre. The lower parts were used as offices. The offices suffer from having windows that do not go down to the ground as all windows should in the tropics.
Stages of 'Westernisation': the adoption of European forms. Uganda, 1906

Dress
Dwelling

(Royal Commonwealth Society, Uganda Album, 1906, 20, 39)

A general view of the centre of Dar es Salaam, showing Kariakoo in the foreground, and the commercial area adjoining the harbour.

2. Types of semi-detached 'Quarters'.

Social and spatial reorganisation: the image of the modern home. Dar es Salaam, late 1950s (Leslie, 1963)
Bungalow as 'house designed for a single family' (i.e. modern 'nuclear' family) 'with high income' (Onokerhoraya, 1977). The early 20th century meaning of 'bungalow' as a house suitable for European occupation in Africa persists as a modern, 'European' single family dwelling. The house is occupied by senior African government officers.
Spatial and social reorganisation (above: Marris, 1962)

6.29

Right: Mabogunje, 1968
CHAPTER SEVEN

AUSTRALIA 1788 - 1940

Early Australian homesteads in the country (Freeland, 1968)
Claremont Cottage, off Moses Street, Windsor, New South Wales: about 1822

The Retreat, or Kelvin, in Badgery's Creek Road, Bringelly, New South Wales: about 1820

Experiment Farm Cottage in Ruse Street, Parramatta, New South Wales: before 1821
Inkerman, built in 1870 of pitsawn timber. Old telegraph repeater station at far end of verandah.

Verandah, 'Inkerman', Townsville, Qd. The two chairs at rear are 'squatter's chairs' and similar to those used on verandah of Anglo-Indian bungalow (Photo, courtesy Ray Summer)
The 'tropical bungalow' in Queensland, c1870s (photographs, courtesy Ray Sumner)
Queensland, 'tropical bungalows', 1890 early 20th century (photographs, courtesy, Ray Sumner)
22 Piddington Bungalow, Mount Victoria, N.S.W. John Horbury Hunt, architect. 1876.

Earliest identified named bungalow, Australia, 1876 (M. Freeland, Architect: Extraordinary. John Horbury Hunt; Johnson, 1980, p. 49) The image and term were apparently taken from the Birchington illustrations in Building News, 1870. See Ch 2 and illustrations).
The image diffused: Australia, late 19th century (Johnson, 1980; Cooper, catalogue, c.1900; Architectural Review, 1900, 8, p. 214)

7.8

Architecture
at the Royal Academy.
HABERFIELD
SYDNEY'S GARDEN SUBURB.

HABERFIELD is conveniently situated, being but 30 minutes from the heart of the metropolis. Take Abbotsford or Haberfield tram in George-street, and alight at O'Connor-street. By "through" train to Summer Hill the journey is 10 minutes.

WRITE FOR ILLUSTRATED "HABERFIELD" BOOKLET.
Full Particulars from any of our Offices.

Own Your Own Cottage at ROSEBERY
Model & Industrial Suburb within 15 minutes of Sydney Central Station

YOU—With the Eternal Question "Where to Live"?
CAN FIND THE ANSWER IN ROSEBERY!

The Town Planning Company of Australia Limited, is opening up 300 acres of magnificent building land, nicely subdivided, with 14 miles of road frontages upon which ARTISTIC HOMES are being erected with every known modern comfort and convenience, including electric light—similar to the famous homes of Haberfield.

ROSEBERY COTTAGES are the latest word in HOME COMFORT. Charming and dainty, both externally and internally—with four, five or six rooms and kitchen, according to your desire, the bathrooms, kitchen and laundries having the most modern equipments.

FOR A HOME—Your Opportunity is NOW
FOR AN INVESTMENT—Your Decision should be IMMEDIATE

Your Architect can design for Rosebery—Your Builder can build at Rosebery

ROSEBERY PRICES MUST RISE—You can get in NOW at lowest.
Compare Haberfield values to-day with those at its inception.
"Ask A HABERFIELD INVESTOR?"
The same guiding hands are behind ROSEBERY—the Model and Industrial Suburb.

The Town Planning Company of Australia
LIMITED

Registered Office: STANTON & SON, 129 Pitt Street, Sydney.
The Redwood Bungalow at Rosebery

The comfortable home requires two things—a good building and good site, and neither is satisfactory without the other.

There is no more comfortable home than the bungalow, and as this special issue of "Building" proves, it gives ideal comfort with ample space at a minimum cost.

The most famous bungalow centre in the world is at California, where after many experiments with various materials, it was found that best satisfaction could be won with California Redwood.

To demonstrate the artistic and one of the economical advantages of California Redwood

A Five-room Bungalow has been erected by the REDWOOD EXPORT CO., of 12 CASTLEROY STREET, SYDNEY, on the Rosebery Estate, showing some of the uses of California Redwood in Bungalow construction. As the Bungalow is essentially of a rustic and informal design, an informal but artistic weatherboard and shingle exterior is most appropriate and effective. The sides of the Redwood Bungalow are covered with a rough weatherboard stained with an oil stain which, although thoroughly covering and protecting the exterior shows up the natural grain of the Redwood. This effect is possible only with a clear timber free from knots and other defects so common to many woods, and which, must be hidden with several coats of paint. This pattern of weatherboard is not only artistic in appearance, but is little more than one half the cost of the old painted rusticated board. No dressed timber is used on the exterior, and the rough effect is carried out in the barge boards, posts and plates.

The roof and gables are shingled with Redwood Shingles laid sin. to the weather, making a most artistic and durable roof for this type of building. Such a roof can be stained any color to conform with the effect desired. Failures in shingle roofs have been found upon investigation to be caused by the use of improper shingling nails, which rust away and allow the shingles to work loose. For this reason a hot-dipped zinc coated or galvanized nail should be used. This makes a very economical roof for the bungalow and should last from thirty to forty years with slight attention.

The interior of the Bungalow must be simple but effective, highly polished woodwork and elaborate wall decorations being out of place. In the Redwood Bungalow we have the beautifully grained natural wood panels finished with dull stain and wax finish. The living and dining rooms are lined with 16in. Redwood panels, the ceiling being covered with T. and G. lining and built-up beams. These rooms are stained with Golden Oak, Lacklustré stain thinned with Lionoll.

The Number 1 Bedroom and Hall are simply waxed with a clear wax and well rubbed down. This preserves the natural salmon pink color of the wood and acts as a filler and finish as well.

The Number 2 Bedroom is finished with a gray stain, which is put on evenly with an ordinary painter's brush and rubbed over smoothly while still wet. This finish gives a beautiful gray and shows up the natural grain of the wood as well.

The Bathroom and Kitchen are painted with Calpaco washable wall finish, over a half-inch Redwood Tongue and Groove Lining. The Redwood is especially useful for painted work, as it is free from pitch and does not shrink and show up the joints.

As timber work plays such a large part in the typical Bungalow construction, it is most essential that a durable, economical and clear timber be used. It is claimed that Redwood more nearly answers the requirements of the Bungalow timber than any other wood. It is not necessary to hide the natural beauty of the wood with unsightly paint, and it is well known throughout the world for its lasting properties in the presence of severe climatic conditions. It has also been found that the White Ant does not seriously attack Redwood, and on account of the absence of pitch and gum in the wood it is slow and difficult to burn.

 Architects and others interested in Bungalow work will find it interesting to inspect the Redwood Bungalow, which is situated on Gardiner's Road, opposite the Rosebery Racecourse.

In fact it is worth while for home builders generally to visit this Sydney's new model suburb, where the Town Planning Co. of Australia owns 300 acres of magnificent building land beautifully divided into 14 miles of road frontages, giving every facility for the building of artistic homes with every known comfort and convenience, including electric light.

The Company is erecting comfortable homes, which are built of 4, 5 and 6 rooms and kitchen, according to the requirements of the owner. Each cottage stands on its own ground with a frontage of not less than 40 feet and 150 feet in depth. No two adjoining cottages alike are built having the component part of the general scheme of beautification.

In these days, when we hear much of artistic homes, it is worth while for all interested to visit Rosebery, and see its developmental possibilities.

To-day, land is there only £3/10/- a foot. In a few years, it must inevitably, as it has in Haberfield under the same management, double itself in value.

Interesting particulars may be obtained from

Stanton & Son, Ltd., MANAGING AGENTS.
129 Pitt St., SYDNEY

Interior of Redwood Bungalow at Rosebery.
Design as commodity: the bungalow used to sell land (Freeland, 1968; Freestone, 1981)
Types of Buildings in Garden Suburb

Plan of Garden Suburb at Goulburn, New South Wales

TOWN PLANNING CONFERENCE, BRISBANE
1918 - "IDEAL" HOME
T.B.M. WIGHTMAN, A.R.I.B.A., ARCHITECT.
J.A.S. CAMPBELL & SONS, BUILDERS

DUNGELOW" RESIDENCE
"NORTMIDGE"
DONALD ESPLIN, ARCHITECT

33 Bungalow, project, Northbridge, N.S.W. Donald Esplin, architect. 1915.
Builders’ vernacular

Californian Bungalows in California and Australia

Architects’ design (Johnson, 1980, p. 57)

Harry Martin Bungalow, Toorak, Victoria. Oakden and Ballantyne, architects. 1908.
BOOK OF

AUSTRALIAN BUNGALOWS

Homes designed along distinct lines to suit Australian conditions

Published and Copyright by
N.S.W. BOOKSTALL COMPANY LTD.
SYDNEY, N.S.W.

7.19
MODERN SUBURBAN BUNGALOW.

A Modern Suburban Bungalow with Plain Tile Roof, Roughcast Walls. With Three Bedrooms, Dining-room, Living-room, Kitchen, etc. Columns separate the Dining-room and Living-room from Hall.

Cost approximately £1300.

PLAN No. 48.

BUNGALOW.


Cost approximately £1950.
The bungalow in New Zealand (G.W. Phillips, *New Zealand Homes and Bungalows*, 1912.)
Magnificent Bungalow

An exclusive residence architecturally designed for modern indoor-outdoor living. The bungalow contains 4 bedrooms, en-suite/dressing room, bathroom, main bathroom, sunken lounge, separate dining room, kitchen, breakfast nook, day room and laundry. Most of which open through floor to ceiling glass doors to outside areas.

OUTDOOR FEATURES
The main bungalow is set beneath a giant Jacaranda tree under which is a secluded outdoor entertaining area surrounded by palms and ferns with the landscaped inground pool a few metres beyond. Huge Porphyry rocks are a feature of the pool area. The entire driveway approach and pool side area is laid in brick into 2 car accommodation. Trees, rocks and shrubs are a feature of the front, giving complete privacy.

The block of land adjoining the property (under separate title) has been incorporated in the landscaping and is assimilated with the main bungalow and grounds by the total surround fence and double driveway gates. It contains a fully self contained retreat which houses the slashpine sauna. This area could double as guest or in-law accommodation.

The retreat has separate car entrance and accommodation. This delightful property is within 25 minutes of Brisbane G.P.O.

Phone (07) 221 9751 during business hours (No Agents).

The contemporary bungalow: advertisement, Queensland daily paper, 1978 (Courtesy, Peter Newell).
CHAPTER EIGHT

SPECULATIONS
SMALL BUNGALOW FOR RETIREMENT . . . . with breakfast nook

Accommodation

<table>
<thead>
<tr>
<th>Room Type</th>
<th>ft. in.</th>
<th>ft. in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dining-lounge</td>
<td>18 0 x 15 0</td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td>12 0 x 11 7\frac{1}{2}</td>
<td></td>
</tr>
<tr>
<td>Breakfast nook</td>
<td>6 9 x 3 4\frac{1}{2}</td>
<td></td>
</tr>
<tr>
<td>Bedroom No. 1</td>
<td>13 10\frac{1}{4} x 12 0</td>
<td></td>
</tr>
<tr>
<td>Bedroom No. 2</td>
<td>12 0 x 10 6</td>
<td></td>
</tr>
<tr>
<td>Bathroom (including linen)</td>
<td>8 7\frac{1}{4} x 6 4\frac{1}{2}</td>
<td></td>
</tr>
</tbody>
</table>

Site

Suitable for site with 45-ft. frontage. Aspect fronting N.E. to N.W.

Materials


Floor Area

970 sq. ft.

Many of the post 1920 seaside bungalows seem to have been purpose-built for retirement; the first reference to the bungalow as suitable for retirement is in 1895. This design is from the Ideal Home Book of Plans, 1936.

Bungalow in Holland, from Betting & Vriend, Bungalows, Darmstadt, 1958

Bungalow in Switzerland, Egerkingen, 1981 (Photo, ADK)

Typo:face specialists might reflect on the different types, and their meanings, chosen for Bungalow, atelier (Studio) and Landhaus (countryhouse)
The disappearance of servants from attics and basements helped to eliminate the highest and lowest parts of the Victorian middle class house; smaller families shrank the number (and size) of the rooms; increased longevity, and a host of other factors, together with the fragmentation of kin, re-builds spacious 19th century suburbs with bungalows. Roundhay, Leeds, 1981 (ADK)

The one-person household: privatised space, Peacehaven, 1981 (ADK)
Half-way to the 'residence secondaire': the bungalow as semi-permanent camp. Near St Tropez, France, 1981 (ADK)

The diffusion of image and terms: camping stoves, South of France, 1981. The term 'week-end' was first recorded in French in 1906 (ADK)
You always have something growing for you as a CHELSEA saver

CHELSEA pounds keep growing

Chelsea Building Society. See Yellow Pages for address of your local branch.

Capital and housing: the reinforcement of social and cultural norms (ADK 1979)
The military’s last outposts.

The nuclear age civil defence is obsolete, survival of government is everything. Some of these innocent-looking bungalows hide the entrances to Britain’s Regional Seats of Government.
PLAYA DEL INGLES
BUNGALOWS SAN VALENTIN

Von der Reihenbungalows-Anlage aus gehen Sie rund 800 m zum Strand. Einkaufsmöglichkeiten finden Sie im Zentrum „La Espiga“, ca. 150 m entfernt, bzw. in der „Kasbah“, etwa 400 m von der Anlage entfernt. Im Zentrum, unterhalb der 12 Bungaloweriebestehenden, finden Sie den Swimming-pool.


Leistung: Übernachtung
Auf Wunsch deutscher Filterkaffee

N-U-R-Plus: Besondere Kinder-Ermäßigung.

PLAYA DEL INGLES
BUNG. SAHARA BEACH CLUB
Zum Dünenmeer von Playa del Ingles nur ein paar Schritte.

Ca. 150 m zum Einkaufs- und Vergnügungszentrum „Cita“, 50 Bungalows. Geplante Liegewiese mit Swimming-pool, Kinderbecken (Duschen).

Die Bungalows für 2-3 Personen haben einen Wohnraum (Schlafsofa), Schlafzimmer, komplett eingerichtete Küche (Kühlschrank) mit Elthekze zum Wohnraum. Bad/Dusche, WC und Terrasse mit Gartenmöbeln.

Leistung: Übernachtung

PLAYA DEL INGLES
BUNGALOWS NAYRA
Eine neuerbaute Bungalows-Anlage.

Die Bungalows für 2-3 Personen haben einen Schlafraum, ein Wohnzimmer (mit Schlafgelegenheit für die 3. Person), komplett eingerichtete Küche mit amerikanischer Eßbar, offen zum Wohnbereich, Bad/Dusche, WC und Terrasse mit Liegen.

Leistung: Übernachtung

PLAYA DEL INGLES
BUNGALOWS SKORPIONS
Eine gepfligte Anlage.


Leistung: Übernachtung

MARIGOT DES ROSEAUX
ST LUCIA West Indies

The bungalow as surplus wealth, 1981
Package holiday brochure, Germany.
The contemporary bungalow, 1981: Britain - Bangla Desh

(Courtesy, Jim McIntosh)
APPENDIX A

An architectural note on the term 'veranda'
Top: oriental influences, mid-eighteenth century (Connor, 1979)
Below: Middleton, 1793.
COTTAGE DWELLINGS IN VARIOUS STYLES.

XI.

A Portable Cottage may be used as a Substitute for a Country Residence. Mr. Me.

Examples of single storey cottage designs, with and without verandah, from J.C. Loudon, *An encyclopaedia of cottage, farm and villa architecture, etc.* London, 1833.
COTTAGE, FARM, AND VILLA ARCHITECTURE.

If the fireplace of the oven is sufficiently low to admit of the flue from it passing down to the oven furnace, there may be an upright flue from the oven, for use when summer. The stairs down to the wine-cellar are shown with a line across the indicating that it is to be constructed with double treads, in order to gain space, as § 164, fig. 137. The windows in the roof are double; the outer sashes being with small panes, to resist hail; and without cross bars, like hot-house sashes, inner ones are upright, and hung in the usual manner. A line passed diagonally

MODELL DESIGNS FOR FARM HOUSES.

Loudon, 1833. A farm house with an enlarged degree of accommodation. The idea bearing the closest resemblance, in architectural form, to an Indian bungalow.
One-storey verandahs became an almost universal addition to houses in Upper Canada and Canada West from 1830 to 1855. Earlier houses also had them but less commonly. They were added across the whole of the front of the long rectangular-shaped houses with the centre-hall plan and to the kitchen tails. In houses which had a main block with a side-hall plan the verandahs were frequently limited to the kitchen wings or tails. The Ontario Cottage in the Regency style favoured verandahs around three sides. The roofs of the earliest verandahs were supported by simple posts or Classical columns. Verandahs from 1835 to 1860 often had elaborate treillage. From 1860 on treillage was replaced in fashion by posts with brackets. A selection of verandahs in various styles is shown.

The Ontario Cottage

The one-and-a-half-storey house with a cottage roof, or hip-roof, has always been built. Owing to the popularity of the Regency style with encircling verandahs, this one-and-a-half-storey house, rare in the northeastern United States but very common in Ontario, has been termed here the Ontario Cottage. Its evolution and types are shown. Elevation A shows the earliest long rectangular form with heavy internal chimneys. B is an example with external chimneys and a Neo-classic porch. C is an example of the form with encircling verandah supported by posts. D is an example, square in plan, with simple Regency treillage in wood supporting a tent-shaped roof. E, F and G ex-

A

B

C

D

E

F

G

A.6.