

PDF: 750W x autoH x 300R

Image

Image ID	
Dimensions	4608 x 3456
Width	4608 pixels
Height	3456 pixels
Horizontal resolution	300 dpi
Vertical resolution	300 dpi
Bit depth	24
Compression	
Resolution unit	2
Color representation	sRGB
Compressed bits/pixel	2

Camera

Camera maker	NIKON
Camera model	COOLPIX S8200
F-stop	f/4
Exposure time	1/50 sec.
ISO speed	ISO-180
Exposure bias	0 step
Focal length	9 mm
Max aperture	3.5
Metering mode	Pattern
Subject distance	
Flash mode	No flash, compulsory
Flash energy	
35mm focal length	48

Advanced photo

Lens maker	
Lens model	
Flash maker	
Flash model	
Camera serial number	
Contrast	Normal
Brightness	
Light source	Unknown
Exposure program	Normal
Saturation	Normal
Sharpness	Normal
White balance	Auto
Photometric interpretation	
Digital zoom	0
EXIF version	0230



*One (BEST) Key
replaces the bunch*

*The
Best Universal Locking System*

FRANK E. BEST, INC.
SEATTLE, U.S.A.

A Proem

Introducing

The
Best Universal Locking System

Protected by
Basic American and Foreign
Patents

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FRANK E. BEST, Inc.
Seattle, Washington, U. S. A.
1121 Post Street, corner Seneca Street
Elliott 3067

F O R E W O R D

THE BEST UNIVERSAL LOCKING SYSTEM was developed primarily to do away with the necessity of carrying the cumbersome "bunch" of keys. The entire system is built around a basically new pin tumbler lock core mechanism of wonderful simplicity and flexibility which renders the core universally adaptable to the various locking needs.

The problem was approached with full recognition of the fact that every individual has a personality—an individuality quite separate and distinct from every other one, even from members of the same household. Every individual should, therefore, be entitled to a distinctive key—a key having a combination number of his own secret choosing which thereby reflects his own individuality; and any adjustment to take care of the overlapping of various human interests in a certain lock should be made in the lock itself, and not by an accumulation of keys upon a ring.

Our system provides this and goes further—it provides a *controllable* security—a quickly and easily *renewable* security—and withal a *greater* security.

Broadly, our aim has been to approach the problem with the utmost candor—without bias—uninfluenced and untrammelled by the traditions of an antiquated art embracing a thousand unrelated mechanisms, that we might give to the world a unified, universally adaptable locking mechanism as the central element of a one-key locking system, which, because of its fundamental simplicity, its beauty and its universal utility, will go down through the ages, continuing at each turn to meet every need of an advancing civilization — THE ULTIMATE SYSTEM.

E L E M E N T S

THE BEST UNIVERSAL LOCKING SYSTEM comprises three fundamental elements: first, a removable *lock core* which is a pin tumbler locking mechanism adapted to and used in conjunction with any one of a great variety of secondary locking contrivances of varied form and use; second, a *key combinator*, which is a device for bitting keys to any desired combination; and third, a *lock combinator*, which is a device for *setting up* desirable combinations in a *lock core* to match a key or group of keys.

THE LOCK CORE

Pin tumbler locking structure, which has been adopted in the *lock core*, has been recognized for years as the world's standard of security and practicability. It consists of several segmented *pins*, figures 2 and 3, page 5, contained in as many *barrels*. Each stack of *pin segments* is held down or in contact with an inserted *key* by an individual *coil spring* contained in the same *barrel*. The insertion of the proper *key* into the *key plug* raises the *pins* to a position in which a *break* between two consecutive *pin segments* in each *barrel* is brought flush or exactly coincident with a *shear line* of the lock, at which position the lock is operative. The portion of the lock below the *shear line*, together with the *pin segments* therein, is then free to turn with the *key*.

Most of the ordinary pin tumbler locks have but one *shear line* which coincides with the cylindrical surface of the *key plug*. A few employ a second *shear line*.

The *core* used in the BEST UNIVERSAL LOCKING SYSTEM employs two *shear lines* and departs from all other locks in the use and function of the second or *upper*

shear line. The lower shear line, shown operative, figure 2, performs the ordinary functions of a lock, while the upper shear line, shown operative, figure 3, controls the assembly and disassembly of the core relative to the secondary mechanism by means of a control key. Figure 1, below, shows a core removed from a secondary mechanism. Turning the key, figure 3, slightly to the right retracts the locking lug, figure 1, into the body of the core so that the core can be inserted into or removed from its secondary mechanism.

This feature, which is absolutely basic and properly protected by American and foreign patents, provides many decided advantages, which, we believe, are destined to revolutionize the lock industry of the world. It affords, to the rightful person, instant access to the vital mechanism of the lock for changing the combinations, while it securely bars all intruders therefrom.

This feature also makes it possible for a person to set up all of his locks to operate by one key, and to adjust any particular lock to accommodate a number of different keys. In short, it definitely fixes the point of ingress, and consequently the responsibility, of each individual with respect to a series of locks. It not only gives a much more flexible master keying system than has heretofore been obtained, but it carries that system to all types of locks, and permits master keying on the job.

When the security of a series of locks is questioned through lost or stolen keys, the security can quickly and easily be renewed by simply biting a new key in the key combinator to a desired combination and setting up the cores in the lock combinator to match.

FIGURE 1

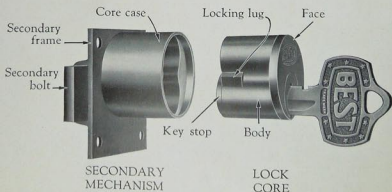


FIGURE 2

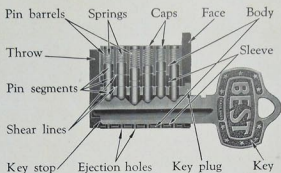
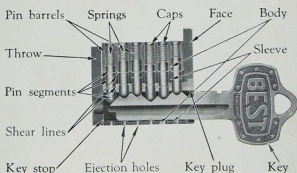


FIGURE 3



The *cores* vary in only three respects, namely, *profile* of face, *length* of body, and *type* of plug ending. By variously combining these three differentiations, *cores* for any desirable adaptations are readily available.

The *key stop* of the *core* is in the rear, instead of in the front, as is the case in all other pin tumbler locks. This permits using the same *key* in locks of various lengths and adds much to the universal adaptation of the *core*.

THE KEY COMBINATOR

The *key combinator*, illustrated on page 7, is as revolutionary as the *lock core* and forms a substantial contribution to the BEST UNIVERSAL LOCKING SYSTEM. It is a simple device of rugged construction on which an unskilled person, though such person be a child of only ten years, can *bit* a key blank to any desired combination number in a few seconds, with micrometer exactness.

THE LOCK COMBINATOR

Pin Tumbler Locks have been in common use for more than half a century. This period of time has witnessed their rise from obscurity to a position of highest recognition. However, but little progress has been made in the method of *setting up* the *pin tumbler* combinations in the lock, and today they are *set up* by hand in much the same way as sixty years ago.

The *Lock Combinator*, illustrated on page 7, is a small compact service device occupying less than one quarter of a cubic foot of space, designed to automatically *set up* locking combinations in a *core* to match a key or group of keys.

The *lock core* to be *set up* is placed in the *core receptacle* and the *keys* to which it is desired to *set the core* are placed in the *key receptacles*. The *starting release* is then manually actuated and the device, which is driven by an electric motor, automatically does the rest. The *lock combinator* first removes any *pins*, *springs*, and *caps* from the *core* that may have been used in a former *set up* and then proceeds to insert *new pin segments* cut to lengths complementary to the notches in the desired keys. *New springs* and *caps* are also added to complete the process. The device affords to the owner of Best locks a ready means for changing lock combinations to meet new needs.

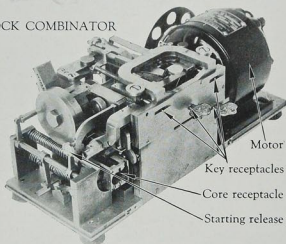
This device is the first of its kind to be built and, while it has demonstrated its practicability, is still in its developmental stage and is not yet ready to be placed on the market. We anticipate no delay, however, in the perfection of this device.

The *key* and *lock combinators* are designed and intended as service machines to be placed in the possession of the representatives and agencies of the company for public use. Provision will be made for the sale or lease of these devices to private parties or concerns whose locking needs make possession of the devices desirable.

THE KEY COMBINATOR



THE LOCK COMBINATOR



FLEXIBILITY

The patron of the BEST UNIVERSAL LOCKING SYSTEM needs to carry but *one* key, for the full round of the day. The padlock on the garage may be the first point of ingress. The ignition lock on the car responds next. At the office, the outer and inner doors, the desk and private files await the touch of the magic key. At the post-office and safety deposit vault the same entrance is provided. The club and lodge lockers are set to the same combination. At home or abroad, whether located or transient, the house, the hotel suite or the stateroom, as well as your luggage are all equally accessible by *one* key!

Convenience, and yet greatest security, withall!

S U P E R I O R I T Y

THE excellence of the BEST UNIVERSAL LOCKING SYSTEM is unapproachable. The *lock core*, which is the unifying element of the whole system, is *fundamentally simple* in structure and the number of parts has been brought to the *irreducible minimum*. It employs pin tumbler locking structure, capable of unlimited key combinations and unparalleled master keying flexibility—the highest type of structure known—and appropriates every desirable feature of the art.

The *lock core* is universally adaptable to all types of locking contrivances. Hundreds of neatly sized and beautifully proportioned adaptations of unusual strength and security are possible with only three structural variations in the core. These variations do not complicate the manufacturing process, which is possible on specially designed and fully automatic machines, at a phenomenally low cost, with micrometer precision which insures interchangeability of parts and perfectly operating mechanisms.

The *lock core* is instantly removable from its *secondary housing* by the use of a key. When thus removed the combinations of the core can be easily and quickly changed to match a key or group of keys, by the use of the *lock combinator*, or by hand.

This exclusive feature brings to the BEST UNIVERSAL LOCKING SYSTEM the greatest locking achievement of all time. Every man is made his own locksmith, who, without technical knowledge or skill, without effort or delay, and in the presence of otherwise perplexing overlappings of other interests in his locks, can set them all to respond to his one key—thereby replacing the “bunch” by a single key, and at the same time give due recognition and accommodation to others who may have the right of access to any number of the same locks so that each of those individuals, in turn, may also carry but one key.

Nor is this accommodation accomplished at the sacrifice of adequate security. Limitless key change possibilities, which, in an eight barrel lock reaches one hundred million and which can easily be multiplied many fold if desired, make possible this wonderful flexibility with unexcelled security.

Furthermore, every adaptation reveals additional points of excellence and many new and desirable types of locks, particularly of the

mortise cabinet variety, not hitherto possible for physical reasons, are, through this system, readily attainable.

The BEST UNIVERSAL LOCKING SYSTEM stands as the acme of locking perfection. Incorporated within the small dimensions of its core is the answer to every locking need or desire. Complications of every sort—intricate mechanisms, the studied and forbidding mathematical problems of master keying, attachment to the undesirable string of keys with its inconveniences and limitations, the annoying and irreparable loss of security through lost or stolen keys and a host of other ills—vanish with the application of the BEST UNIVERSAL LOCKING SYSTEM — THE ULTIMATE SYSTEM.



SPECIFICATION CODE

LOCK CORE (See page 22)

Core faces—A, B, C, and D.

Length of body—(number of barrels) 3, 4, 5, 6, 7, and 8.

Type of plug ending—U, V, UV, W, X, Y, and Z.

SECONDARY MECHANISMS

S (used with numerals) (See adaptations)

FINISHES

“F” designates “finish” and is always used with numerals in specification, thus:

Bower Barff	F10	Standard Light Bronze	F20
Antique Copper	F11	Nickel Plated	F21
Dull Brass	F12	Statuary Bronze	F22
Antique Brass, Light	F13	Same as F11 Sanded	F23
Brass, Oxidized Mottled	F14	Same as F12 Sanded	F24
Dull Bronze	F15	Same as F13 Sanded	F25
Dull Silver	F16	Sanded Brass Antique, Light	F26
Amber Bronze	F17	Verde Antique	F27
Dead Black Electro	F18	Polished Brass	F28
Jappanned	F19	Gun Metal	F29

Special adaptations, designs and finishes to order.

LOCK ADAPTATIONS

THE core of the BEST UNIVERSAL LOCKING SYSTEM is designed to meet every locking need. Only a *few* of the more general adaptations are shown herewith. There are many more, however, together with numerous specially designed locking devices which are incorporated into privately patented and specially built articles for an endless variety of uses, to which the *core* of the BEST UNIVERSAL LOCKING SYSTEM may as readily be adapted.



A FEW SUGGESTIONS in BUILDERS' HARDWARE

REPLACEMENT CYLINDERS

The BEST cylinder is interchangeable with the ordinary types. It possesses the *exclusive* advantage that it can only be removed from the door by an authorized person.

The *patented* lock-controlled assembly feature of the BEST UNIVERSAL LOCKING SYSTEM, provides this *exclusive security*. The ordinary cylinder now in use, is easily released by *any* person having a few seconds at the lock when the door is open. Thus released the cylinder is removable and the lock operative at any time without the key, giving instant access to everything supposedly protected by the lock.



The lock that secures is the BEST.

Structure—

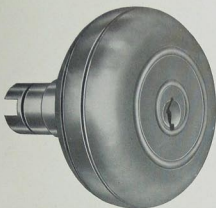
C4W—S 104— $1\frac{1}{8}$ " to $1\frac{3}{4}$ " doors
C6W—S 106— $1\frac{3}{8}$ " to $1\frac{1}{2}$ " doors
C8W—S 108— $1\frac{3}{4}$ " or over doors

Finishes—

F10, F12, F16, F18, F21, F24,
and F28 (See code, page 9)

DOOR KNOB LOCKS

CAST KNOB



This knob is made from a one-piece casting, into which the removable *core* is locked. Strength and refinement are provided by this type of construction.

Structure—

D5 UV—S110

Finishes—

F10, F12, F15, F16, F18,
F22, F24

GLASS KNOBS

The BEST *core* is very beautifully adapted to glass door knobs. The security of the *lock* is not affected or impaired in the least by the breaking of the glass, so that these locks may be used on *exterior* as well as *interior* doors with safety.

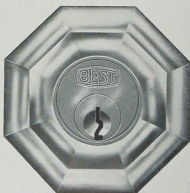
Structure—

B4U—S124 (for interior doors)

B5U—S125 (for exterior doors)

Finishes—

F10, F12, and F28



PRESSED STEEL KNOBS

Pressed steel shells of various designs and finishes can be furnished in place of the glass to provide a cheaper grade of locks where price is the chief consideration.

NIGHT LATCH



The night latch is easily installed. Just a one-inch hole bored through the door. An eccentric taper on the *housing* insures rigidity when assembled in the door.

Structure—B5UV—S128

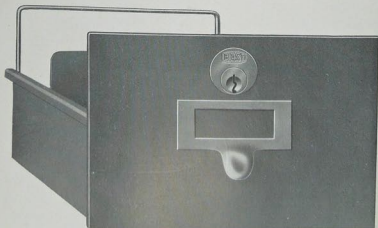
Finishes—F10, F12, F24, and F28



SPECIAL ADAPTATIONS

FILING SYSTEM

The *core* is here shown built into a filing drawer. Every drawer and door of any filing system may be designed to receive a standard *core*. In units where the lock is not desired, a plain metal stamping just the size of the lock face and bearing the trade name or advertisement of the manufacturers may be inserted in place of the lock, which in itself lends distinction to the system and which at any time can be easily and quickly removed and replaced by a *lock core*.



POST OFFICE BOX LOCK



The remarkable *flexibility* of the BEST UNIVERSAL LOCKING SYSTEM is emphasized by this showing. Here, as elsewhere, the core is readily adaptable and the *one key* serves.

SAFETY DEPOSIT BOX LOCK



To the safety deposit vault the BEST UNIVERSAL LOCKING SYSTEM brings a new security—a security, afforded the patron, of absolute *privacy* and *secrecy*, even in the matter of choosing the *combination number* in the lock that protects his valuables.

CABINET LOCKS THROUGH TYPE

DRAWER LOCK *Vertical—dead bolt*



Structure—B4Y—S130
Finishes—F12 and F28

Whatever variety or type of lock you choose, you have the security, refinement and accommodation afforded only by the BEST UNIVERSAL LOCKING SYSTEM.

CUPBOARD OR LOCKER LOCK *Cross—dead bolt*

This lock is designed for use on metal lockers as well as on panelled or glass doors having vertical stiles as narrow as $1\frac{1}{2}$ ". For right and left hand doors.



Structure—B4U—S140
Finishes—F12 and F28

CABINET LOCKS *of the MORTISE TYPE*

The application of pin tumbler locking structure to cabinet locks of the mortise type—a most desirable accomplishment, which heretofore has been considered impossible because of structural difficulties—is, through the use of the exclusive lock-controlled assembly feature of the BEST UNIVERSAL LOCKING SYSTEM, readily attainable. This patented feature makes possible the introduction of this most desirable type of locks, a few of which are shown herewith. In fitting these mortise adaptations, attention is directed to the method of removing the core and core case from the secondary lock for its insertion into the mortise. The control key serves to release and remove the core from the core case, (see figure 1, page 4). The core case is then removed from the secondary lock by loosening the screws, (shown in the removed core case, figure 4, below). The secondary lock is then ready for insertion into the mortise in the edge of the door. The core case is added through an inch hole provided therefor in the side of the door and secured to the secondary lock by the aforesaid screws, after which the core is locked into the core case by the use of the control key, completing the assembly of the lock in the mortise.

CUPBOARD LOCK

Cross—snap bolt

This lock can be mortised into a stile as small as $\frac{5}{8}$ "x $1\frac{5}{8}$ ". The core can be inserted into the secondary housing as shown, or reversed as desired, for right or left hand doors.



Structure—

B3W—S150 for $\frac{5}{8}$ " doors

B4W—S151 for $\frac{7}{8}$ to $1\frac{1}{8}$ " doors



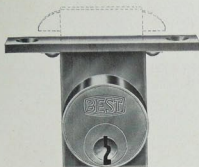
Figure 4

Finishes—

F12 and F28

F12 and F28

CHEST LOCK

Disappearing anchor—dead bolt

This lock can be mortised into a rail $\frac{5}{8}$ " x $1\frac{5}{8}$ ". It will add *distinction* to any piece of furniture, and carry with it the convenience of the *one key*.

Structure—B3Z—S160 $\frac{5}{8}$ " to $\frac{7}{8}$ " rails }
 B4Z—S161 $\frac{7}{8}$ " to $1\frac{1}{8}$ " rails } Finishes—F12 and F28

CHEST LOCK

Anchor strike—dead bolt

An attractive lock, rendered effective through its very simplicity



Structure—B3X—S170— $\frac{5}{8}$ " to $\frac{7}{8}$ " rails }
 B4X—S171— $\frac{7}{8}$ " to $1\frac{1}{8}$ " rails } Finishes—F12 and F28

LUGGAGE LOCKS

TRUNK LOCK



Structure—

B4U—S200

Finishes—

F12 and F28

When traveling—in the hurry and excitement of a strange city, or in taking passage on a liner—what a sense of *relief* and *satisfaction* to see the familiar *lock combinator* in the hotel or purser's office, and to realize that, while there, you may have the *privacy* and *security* of your own home, with the convenience of your *one key*. It is only the work of a moment for the clerk to set the locks on your suite to match your trunk and luggage locks and at the same time give accommodation to the servants' keys *without revealing* your secret combination.



HAND SATCHEL LOCK

Keys that are seldom used are often mislaid. This is particularly true of keys to luggage locks. It is very annoying to find, when in the greatest hurry, that the lock on a piece of luggage has been thoughtlessly snapped and that the key has been misplaced.

At the critical moment, when action is imperative, the *one key* of the BEST UNIVERSAL LOCKING SYSTEM *saves the day*.

*If it is worth locking—it is worthy of the
BEST*

SUIT CASE LOCK



For distinction, for beauty and refinement, as well as for security and practicability, BEST locks are unexcelled.

PADLOCKS

THROUGH SHACKLE TYPE

snap bolt



A solid jacketed lock for automobiles, motorcycles, bicycles, sea bags and mail pouches.

The key hole is in the side rather than in the end where it is difficult to insert and turn the key.

Structure—B3UV—S210

Finishes—Special

1 1-16" PADLOCK

Structure—

A4UV—S220 (specify material)

Finishes—

F10, F12, F15, F18, F24, F28,
and F29.



The jackets of these padlocks are machined from solid metal. They are made in brass, bronze and steel. The steel jacketed padlocks can be case hardened to turn a hack saw or file. *Here we find the embodiment of every desirable locking feature known to the art.* These locks represent the gleanings from centuries of lock evolution, to which is added the enrichment of the lock-controlled assembly feature of the BEST UNIVERSAL LOCKING SYSTEM.



1 1/4" PADLOCK

Structure—

A5UV—S225 (specify material)

Finishes—

F10, F12, F15, F18, F24, F28,
and F29

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SEATTLE

BEST