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National Association of

WATCH&CLOCK

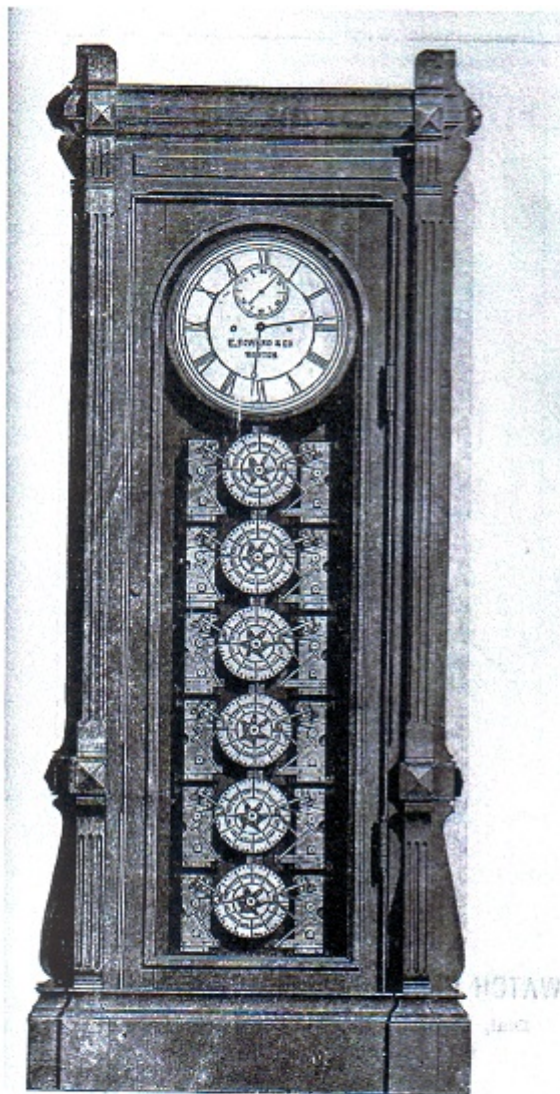
Collectors, Inc.

NAWCC Chapter 52 - Los Padres

Howard Watchman's Clock

Howard Watchman's Clock

Reprinted courtesy of Chapter 175



WATCH CLOCK FOR 12 WATCHMEN,
MANUFACTURED BY
THE E. HOWARD WATCH AND CLOCK CO.,
BOSTON, MASS.

E. HOWARD

Watch and Clock Company,

MANUFACTURERS OF THE

NEW ELECTRIC

WATCHMAN'S CLOCK

JANUARY, 1888.

SALESROOMS:

383 Washington St., opp. Franklin St., Boston.

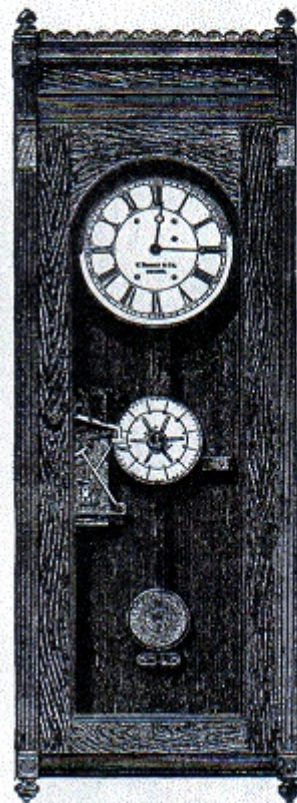
41 Maiden Lane New York.

170 State St., opp. Palmer House . . Chicago.

ALFRED MYDSE & SON, PRINTERS, 24 FRANKLIN ST., BOSTON.

Limited Reprinting
ADAMS BROWN COMPANY
 Exeter, New Hampshire
 1966

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 Dana J. Blackwell, Naugatuck, Connecticut



WATCH CLOCK FOR ONE WATCHMAN

Dial, 11 inches in diameter; case, 4 feet
 6 inches long, 19 inches wide.

THE E. HOWARD WATCH AND CLOCK CO.

PARTIES USING PROGRAMME
CONTACT.

MASSACHUSETTS.

BALLARD VALE WOOLEN MILLS.....Ballard Vale.
BLACKSTONE MFG. CO.....Blackstone.
FISHER MFG. CO.....Fisherville.
GLOBE YARN MILLS.....Fall River.
HADLEY CO.....Holyoke.
HOLYOKE MACHINE CO....."
HAMILTON MFG. CO.....Lowell.
HOLLISTON MILLS.....Holliston.
IPSWICH MILLS.....Ipswich.
MERRICK THREAD CO.....Holyoke.
OTIS CO.....Ware.
PACIFIC MILLS.....Lawrence.
WINONA PAPER CO.....Holyoke.

RHODE ISLAND.

CLARKE, LOUIS W.....Providence.
CONANT THREAD CO.....Pawtucket.
FLETCHER MFG. CO.....Providence.
RODMAN MFG. CO.....Wickford Junc.
UNION H. R. R. CO.....Providence.
UNION WADDING CO.....Pawtucket.

CONNECTICUT.

YALE & TOWNE MFG. CO.....Stamford.

NEW YORK.

CAMPBELL, WM. & CO.....New York City.
JOHNSON, ISAAC G.....Spuyten Duyvil.
NEW, T.....New York City.
SANFORD, S. & SONS.....Amsterdam.

PENNSYLVANIA.

BROWN, W. T.....Philadelphia.
KEYSTONE CASE CO....."
PITTSBURG LOCOMOTIVE WORKS.....Pittsburgh.

ILLINOIS.

CENTRAL ILL. INSANE ASYLUM.....Jacksonville.
INSTITUTION FOR THE DEAF AND DUMB, "
WESTERN ELECTRIC CO.....Chicago.

MARYLAND.

POOLE & HUNT.....Baltimore.

CANADA.

PENMAN MFG. CO.....Paris, Ont.

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CATALOGUE AND DESCRIPTION

OF THE

HOWARD ELECTRIC

WATCH CLOCK

AND

REGULATOR,

MANUFACTURED BY

The E. HOWARD WATCH and CLOCK CO.

JANUARY, 1888.

SAMUEL LITTLE, President.

CHAS. J. HAYDEN, Treasurer.

ALBERT HOWARD, Gen. Supt.

THE E. HOWARD WATCH AND CLOCK CO.

PENNSYLVANIA, — Continued.

ERIE & WESTERN TRANS. CO.	Erie.
GRAHAM, J. C.	Philadelphia.
HARRIS & SON.	"
INDEPENDENT ELECTRIC CO.	"
KEYSTONE CASE CO.	"
LINVILLE, THE SAMUEL R. CO.	"
LOYD, WM. M. & CO.	"
MCCULLUM, CREASE & SLOAN.	Germantown.
MUHR'S SONS.	Philadelphia.
NATIONAL BANK OF THE REPUBLIC.	"
NOVELTY ELECTRIC CO.	"
PENN. R. R. SUPPLY DEPOT.	"
PHILA. CO. PRISON.	"
PHILA. SAVING FUND SOCIETY.	"
PHOENIX SILK MFG. CO.	Allentown.
PILLING & MADELEY.	Philadelphia.
PINKHAM ELEC. GAS LIGHTING CO.	"
PITTSBURGH LOCOMOTIVE WORKS.	Pittsburgh.
RAYMOND, A. R. & CO.	Philadelphia.
RING, J. & SON.	"
ROOT, H. C.	"
ROTHWELL, CHAS.	"
STATE HOSPITAL FOR INSANE.	Danville.
STATE HOSPITAL.	Norristown.
TAYLOR, WM. & CO.	Allentown.

MARYLAND.

MARYLAND PENITENTIARY.	Baltimore.
MT. VERNON MILLS.	"
POOLE & HUNT.	"
SECOND NATIONAL BANK.	Cumberland.
WISE BROS.	Baltimore.

DELAWARE.

DUPONT, E. J. & Co.	Wilmington.
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VIRGINIA.

HASELTINE, J. M. & Co.	Newport News.
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GEORGIA.

GATE CITY NATIONAL BANK.	Atlanta.
KIMBALL HOUSE.	"
STEVENS, J. P. & BRO.	"

ARKANSAS.

DESHA LUMBER AND PLANTING Co.	Arkansas City.
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INDIANA.

SO. BEND IRON WORKS.	South Bend.
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ILLINOIS.

ANDERSON PRESSED BRICK Co.	Chicago.
BRUNSWICK BALKE COLLENDER Co.	"
CENTRAL ILL. INSANE ASYLUM.	Jacksonville.
EASTERN ILL. INSANE ASYLUM.	Kankakee.
GLEN CITY FLOUR MILLS.	Quincy.

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THE E. HOWARD WATCH AND CLOCK CO.

The clock may be made so that any one in the room where it is located can have free access to the interior of the clock, and still a record made any other way than that intended is surely detected; nevertheless, the cases are made in the most thorough manner, the doors setting in a rabbet and locked with Yale lock, and when desired, we attach to the door a recorder which prevents the door being opened without making a record on the recording dial.

The record is a permanent one and cannot be erased, inasmuch as it is made by punctures through the recording dial and can be filed for future reference. This is of considerable importance when considering a reduction in rates of insurance.

For proof of our claims we take the liberty to refer you to any or all of the parties now using our NEW ELECTRIC WATCHMAN'S CLOCK, a list of whom you will find on pages 13 to 18.

Their benefits are not confined to the detection of delinquents, but they are of great advantage to the faithful watchman, giving an unquestionable certificate of his night's work being faithfully performed, and encouraging his honesty by the knowledge that his efforts are recorded and will obtain full credit.

The clock may be placed in the office, or in any building near to or remote from the watchman's duties, two wires only, running from the clock throughout the building, being necessary for any number of points which the watchman is desired to visit in his tour of duty. A single wire can be used by making a ground connection to each station for a return circuit. A station is placed at every point which you wish the watchman to visit, into which he inserts his key (which fits all stations alike), gives one full turn, after which the station automatically makes the record, and the electric currents are, by contact, allowed to pass through the wire and record the specific number of each, and at the moment he visits it. The record is made on a circular piece of paper. It is not necessary that the boxes or stations shall be visited in any particular order or equal number of times, for the record of each box is given independently of any other, and the route of the watchman may be changed, either in direction, or by shortening or lengthening, and the record tells you the truth of what has been done by the watchman. Should the watchman record at one station one or more times at a visit, the record will show it intelligibly in the morning. The record thus shows the time occupied in making any part of the round, as well as the entire round, and how much time is occupied by the watchman between the rounds.

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THE E. HOWARD WATCH AND CLOCK CO.

DESCRIPTION

OF THE

NEW ELECTRIC WATCHMAN'S CLOCK,

And the Possibilities of its Various Uses.

THE NEW ELECTRIC WATCHMAN'S CLOCK is a device intended to be used in buildings where watchmen are employed to guard against fire or burglars, reporting the faithful or unfaithful performance of duty of the one in charge of said buildings, and is the only Clock now made that cannot be tampered with, without detection.

We claim that the NEW ELECTRIC WATCHMAN'S CLOCK, with its auxiliary attachments as now manufactured by us, is a positively truthful recorder, whether the watchman or other interested party or parties make their records in the manner desired of them or otherwise.

The NEW ELECTRIC WATCHMAN'S CLOCK is the result of twenty years' special experience in devices to accomplish that which we have at this time done. The method of recording, as now done by us, we have had in use since July, 1879, and the success of all of this form of clock has been unvaried, although there has been demanded of it what we considered impossible a few years since.

The reputation of our time-keepers is too well known to make any particular claim here in reference to them; but we will state that the time-keeping part of this device is made with more than ordinary care. The clock at which the watchman's record is made can be arranged for any number of watchmen's records, it being only limited by the room there may be assigned to it in the office or room in which it is to be placed, and the number of places from which records can be sent to the recording disc or dial assigned to any one watchman is governed only by the time that the watchman has to visit said places, and any number of stations can be added to or taken away from the set of stations allotted to one watchman to visit, without interfering with the working of those remaining.

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THE E. HOWARD WATCH AND CLOCK CO.

ILLINOIS, — Continued.

INSTITUTION FOR THE DEAF AND DUMB, Jacksonville.
NORTHERN ILL. INSANE ASYLUM Elgin.
THOMPSON & TAYLOR Chicago.
WESTERN ELECTRIC CO. "

COLORADO.

GOTTESLEBEN, P. Denver.
WINDSOR HOTEL "

WASHINGTON, D. C.

NATIONAL MUSEUM BUILDING Washington.

KANSAS.

RUSHMER, H. J. & SON Lawrence.
UNION PACIFIC R. R. Co. Armstrong.

NEBRASKA.

UNION PACIFIC R. R. Co. Omaha.
WOODMAN LINSEED OIL WORKS. "

OHIO.

FIDELITY SAFE DEPOSIT AND TRUST Co. Cincinnati.

CANADA.

BIRTWISTLE P. London, Ont.
BLUMHART, W. E. Montreal, P. Q.
CANADA COTTON CO. Cornwall, Ont.
PENMAN MFG. CO. Paris, Ont.
RATHBURN, H. B. & SON Deseronto, Ont.
ST. JOHN COLLAR CO. St. John, N. B.

CUBA.

LINO, MONTALVO Cienfuegos.

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THE E. HOWARD WATCH AND CLOCK CO.

PROGRAMME ATTACHMENT.

Besides the watchman's and door recording devices, we apply to the clock, when desired, a device which we term PROGRAMME CONTACT. Its function is to make an electrical contact at any predetermined time desired.

The contacts are arranged, unless otherwise specified at time of order being given for a clock, so that adjustments can be readily made to make the contacts on any five minutes of the twelve hours; as, on the hour, 5, 10, 15, 20, etc., minutes past the hour. The use to which this contact has been applied has been to ring a bell or bells in the engine-room and other rooms for known signals, — such as starting or stopping the engine, — thereby giving a common time for starting and stopping where there are two or more engines run by the same company, and also having the power furnished on the standard time of the company, which standard time should be the time kept by the watch clock. This contact can be utilized for any purpose where an electrical circuit is desired to be made at a stated minute or minutes. As many gongs may be rung as desired. We refer you to parties using our PROGRAMME CONTACT, a list of whom you will find on page 19.

SUGGESTIONS

TO PARTIES CONTEMPLATING PURCHASING A WATCH CLOCK, AND TO PARTIES INTERESTED IN THE PROTECTION OF PROPERTY OF ANY NATURE TO BE GUARDED BY A WATCHMAN.

Our method of making a record can be used by no one but ourselves, as we are protected by the following Letters Patent: No. 177,671, May 23, 1876; No. 203,689, May 14, 1878; No. 239,076, March 22, 1881; No. 223,517, Jan. 13, 1880; No. 223,535, Jan. 13, 1880; No. 319,783; June 9, 1885; No. 319,818, June 9, 1885.

There is no other watch clock made, the stations of which give each its distinctive record without reference to its location on its receiving disc or strip.

Each station is entirely independent of the others in its operation, and the failure of a station will have no effect on the working of the others. This system does not require that

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THE E. HOWARD WATCH AND CLOCK CO.

NEW YORK, — Continued.

JOHNSON, ISAAC G. Spuyten Duyvil.
KINDERHOOK MFG. CO. Kinderhook.
KING'S CO. STORE HOUSE. New York City.
LOTH, JOS. & CO. " " "
LINCOLN BANK AND SAFE DEPOSIT VAULTS. " " "
LALANCE & GROSJEAN MFG. CO. Woodhaven, L. I.
MANHATTAN STORAGE CO. New York City.
MAYER'S RUBBER CO. " " "
MANHATTAN SAFE DEPOSIT CO. " " "
MILLER, HALL & HARTWELL. Troy.
NICHOLS, C. R. Fulton.
NEWBURY STEAM MILLS. Newbury.
NEW BRUNSWICK RUBBER CO. New York City.
NEVARRO APARTMENTS. " " "
NEW, T. " " "
OSWEGO FALLS MFG. CO. Oswego Falls.
ODELL, N. S. New York City.
PRODUCE EXCH. SAFE DEPOSIT VAULTS. " " "
ROSSEAU, D. " " "
REARDON & ENNIS. Troy.
SCHEFF, A. New York City.
SANFORD, S. & SONS. Amsterdam.
SMITH & RAEHER. Rochester.
SILSBY MFG. CO. Seneca Falls.
TUCKER ELECTRICAL MFG. CO. New York City.
UNION SQUARE HOTEL. " " "
UNION PORCELAIN WORKS. Greenpoint.
WORTH HOUSE. New York City.
WHITMAN & BARNES MFG. CO. Syracuse.
WICKLE, WM. & CO. New York City.

NEW JERSEY.

HASELTINE, J. M. & Co. Jersey City.
KELLEY & JONES. " "
KEUFFEL & ESSER. Hoboken.
MILLVILLE MFG. CO. Millville.
MYERS RUBBER CO. New Brunswick.
NEW JERSEY RUBBER SHOE CO. " "
TRAYMORE HOUSE. Atlantic City.
TRENTON WATCH CO. Trenton.
WOOD, GEO. W. May's Landing.
WOOD, R. D. & CO. Florence.

PENNSYLVANIA.

ACADEMY OF MUSIC. Philadelphia.
AYRES, WM. & SONS. " "
BETHLEHEM SILK CO. Bethlehem.
BAEDER, ADAMSON & Co. Philadelphia.
BROWN, W. T. " "
BRANSON, GEO. " "
CORNISH, THE T. E. ELECTRIC BELL CO. " "
COLLINGWOOD MILLS. " "
CULIN, F. A. " "
CAMPELL, GEO. A. & Co. " "
DOWNING, W. C. " "
DARLINGTON, RUNK & Co. " "

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THE E. HOWARD WATCH AND CLOCK CO.

RHODE ISLAND.—Continued.

PEACEDALE MFG. CO.	Peacedale.
PRISON, R. I. STATE.	Providence.
PROVIDENCE WORSTED MILL.	"
RODMAN MFG. CO., LA FAYETTE MILLS.	Wickford Junction.
" " " SHADY LEA MILLS.	"
" " " SILVER SPRING MILLS.	"
" " " WAKEFIELD MILLS.	Wakefield.
RUMFORD CHEMICAL WORKS.	Providence.
RIVERSIDE AND OSWEGO MILLS.	"
SAYLES, W. F. & F. C.	Pawtucket.
SLATER COTTON CO.	"
SMITH, AMOS D. & CO.	Providence.
SLATER MILL & POWER CO.	"
SOCIAL MILLS.	Woonsocket.
UNION WADDING CO.	Pawtucket.
UNION H. R. R. CO.	Providence.
VALLEY WORSTED MILLS.	"
WEYBOSSET MILLS.	Olneyville.
WANSKUCK CO.	Providence.

CONNECTICUT.

ANSONIA BRASS & COPPER CO.	Ansonia.
COLLINS CO.	Collinsville.
CHENEY BROS.	Manchester.
FARRELL FOUNDRY & MACHINE CO.	Ansonia.
GREENWOODS CO.	New Hartford.
GROSVENOR DALE CO.	N. Grosvenor Dale.
LEONARD SILK MILLS.	Warehouse Point.
NORWICH DYE'G, BLEACH'G & FNG. CO.	Norwich.
PALMER BROS.	Fitchville.
PONEMAH MILLS.	Norwich.
STATE HOUSE.	Hartford.
WINCHESTER REPEATING ARMS CO.	New Haven.
WILLIMANTIC LINEN CO.	Willimantic.
WATERBURY BUCKLE CO.	Waterbury.
YALE & TOWNE MFG. CO.	Stamford.

NEW YORK.

AMERICAN BANK NOTE CO.	New York City.
BELLA FLATS.	" " "
BOKRUM & PEASE.	" " "
BROADWAY AND 7TH AVE. R. R.	" " "
BRUNSWICK BALKE COLLENDER CO.	" " "
BUMMELL, J. H. & CO.	" " "
BLACK, STARR & FROST.	" " "
BRIGHTON BEACH RACE TRACK.	" " "
BROWN & EARLES.	" " "
CAMPBELL, WM. & CO.	" " "
CENTRAL PARK BANK.	" " "
CITY HALL.	Buffalo.
COLUMBIA COLLEGE.	New York City.
DEWITT, J. H. & SONS.	Brooklyn.
FAHYS, JOS.	Sag Harbor, L. I.
FULLER, WARREN & CO.	Troy.
FISCHER BROS.	New York City.
HARMONY MILLS.	Cohoes.
HOFFMAN HOUSE.	New York City.
HIGGINS, CHAS.	" " "

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THE E. HOWARD WATCH AND CLOCK CO.

the watchman should be at a given point at a stated time. A watchman claims that at a certain time of day or night he was detained at some point in his tour by one of the various causes which should detain him; as a proof of his statement, a record made from the nearest station to the point of his detention, after being ready to resume his tour, would be proof positive of his veracity. Watchmen are expected to watch the premises, not the clock.

The clock has so little to do in locating the time of the records that the time-keeping qualities are in no way impaired, and thus a time-keeper is furnished with the watch clock, that can be relied upon for a standard time, which no manufacturing concern of even the smallest pretence should be without.

Parties at any considerable distance from any of our agents, desiring to purchase our clock, can order the same without a special visit by an agent, and can get an approximate estimate by correspondence, by writing the following particulars:—

The number of watchmen that are required on the premises.

The number of stations it is required that each watchman shall visit in making one complete circuit.

The number of buildings in which stations are to be placed, and the location of each station in said buildings. The location can be best represented by a diagram of the premises, with a character peculiar to each watchman, showing the probable location of each station.

The dimensions of each building in length, width, and height.

The distance between the buildings, and if they are connected by wings, bridges, or any covered passageway.

The locations of the stations should be so arranged that the watchman will be obliged to pass through every room at least once during his tour, and possibly some rooms twice.

We are constantly coming in contact with parties who will not for an instant entertain the suggestion that their watchman is unfaithful; nevertheless, there are many instances where the fact has been developed, and to parties who have been most positive that their watchman was entirely trustworthy, that the watchman needs watching fully as much as partners, or employees other than watchmen.

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THE E. HOWARD WATCH AND CLOCK CO.

PRICES

OF THE

NEW ELECTRIC WATCHMAN'S CLOCKS.

Clock, with Register for one Watchman, 11-inch Dial; Case, 4 feet 6 inches long, 19 inches wide . . .	\$150.00
Clock, with Register for one Watchman, 16-inch Dial; Case, 6 feet long, 26 inches wide . . .	175.00
Clock, with Register for one Watchman, 16-inch Dial, Regulator Movement, with Dead Beat Escapement, Retaining Power, and Second Hand; Case, 6 feet long, 26 inches wide . . .	200.00
Clock, with Registers for two Watchmen, 16-inch Dial; Case, 6 feet long, 26 inches wide . . .	250.00
Clock, with Registers for two Watchmen, 16-inch Dial, Regulator Movement, with Dead Beat Escapement, Retaining Power, and Second Hand; Case, 6 feet long, 26 inches wide . . .	275.00
Clock, with Registers for three Watchmen, 16-inch Dial; Case, 6 feet long, 26 inches wide . . .	325.00
Clock, with Registers for three Watchmen, 16-inch Dial, Regulator Movement, with Dead Beat Es- capement, Retaining Power, and Second Hand; Case, 6 feet long, 26 inches wide . . .	350.00
Clock, with Registers for four Watchmen, 16-inch Dial; Case, 6 feet long, 26 inches wide . . .	400.00
Clock, with Registers for four Watchmen, 16-inch Dial, Regulator Movement, with Dead Beat Escapement, Retaining Power, and Second Hand; Case, 6 feet long, 26 inches wide . . .	425.00
Battery for each Watchman . . .	8.00
Stations, each . . .	5.00
Door Recorder . . .	15.00
Electric Contact for controlling Electric Dials . .	20.00

When an extra heavy movement is required, because of a large number of watchmen registering on the same clock, a special price will be given for the same.

For case made of mahogany, \$6.00 extra will be charged for the small, and \$10.00 extra for the large size.

If the registering machines are in a plain case without the dial, the price will be \$25.00 less.

EXTRA ATTACHMENT.

Programme Contact . . .	\$50.00
Each Gong and Battery . . .	9.00
Relay . . .	4.50

INDIVIDUAL ATTACHMENT.

Arranging Clock for the Recording Dial . . .	\$15.00
Each Individual Magnet with its Electrode . . .	12.00
Battery for each Magnet . . .	2.00

RECORD DIALS.

Dials for one Watchman . . .	\$1.00 per Hundred.
Dials for two Watchmen . . .	1.20 "
Dials for Individual Attachment* . . .	2.00 "

On all orders for 1000 or more dials, there will be a discount of 20 per cent.

*See page 9.

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THE E. HOWARD WATCH AND CLOCK CO.

MASSACHUSETTS, — Continued.

NEW BEDFORD MFG. CO.	New Bedford.
NAUMKEAG STEAM COTTON CO.	Salem.
OTIS CO.	Ware.
PRISON, MASS. REFORMATORY	Concord.
" " " " FOR WOMEN, Sherborn.	"
POCASSET MFG. CO.	Fall River.
PACIFIC MILLS	Lawrence.
PARA RUBBER SHOE CO.	So. Framingham.
RICE & HUTCHINS	Boston.
RAND, AVERY & CO.	"
REYNOLDS, R. M. & THEO.	Monson.
ROXBURY GAS CO.	Boston.
RICH, ISAAC & CO.	"
ROXBURY INS. FOR SAVINGS	"
STANDARD CORDAGE CO.	"
SKINNER, WM. & SON	Holyoke.
SPRINGFIELD SAFE DEP. & TRUST CO.	Springfield.
SIMMONS, G. W. & CO.	Boston.
SWIFT & SMITH	Attleboro'.
SMITH, THE G. W. & F. IRON CO.	Boston.
STATE HOUSE	"
STATE ALMSHOUSE	Tewksbury.
STATE WORK-HOUSE	Titicut.
SHOVE MILLS	Fall River.
TREMONT AND SUFFOLK MILLS	Lowell.
WHITE, R. H. & CO.	Boston.
WHITCOMB, BENJ. D.	"
WHITTIER MACH. CO.	"
WHITING, J. S. & SON	"
WHITING PAPER CO.	Holyoke.
WINONA PAPER CO.	"
WHITE, EDMUND	Holbrook.
WAMSUTTA MILLS	New Bedford.
WHITTENTON MFG. CO.	Taunton.
WASHBURN & MOEN MFG. CO.	Worcester.
WYOMING MILLS	Fall River.
WHITTIER MACHINE CO.	So. Boston.
YOUNG'S HOTEL	Boston.

RHODE ISLAND.

AMERICAN SCREW CO.	Providence.
ALLENDALE CO.	"
AMERICAN ELECTRICAL WORKS	"
ANN AND HOPE MILLS	Lonsdale.
ATLANTIC MILLS	Providence.
ARMINGTON & SIMS ENG. CO.	"
BERKELEY CO.	"
BROWN BROS. & CO.	"
CONANT THREAD CO.	Pawtucket.
CORLISS SAFE MFG. CO.	Providence.
CLARKE, LOUIS W.	"
COTTRELL, C. B. & CO.	Westerly.
FLETCHER MFG. CO.	Providence.
FRIENDS SCHOOL	"
GORHAM MFG. CO.	"
LORRAINE CO.	Pawtucket.
MERINO MFG. CO.	Olneyville.
NATIONAL WORSTED MILLS	Providence.
ORIENTAL MILLS	"

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THE E. HOWARD WATCH AND CLOCK CO.

We have just received the following valuable testimonial from Dr. Edward Cowles, Medical Superintendent of the McLean Asylum for the Insane, at Somerville, where we have placed one of our fine Watch Clocks, for receiving the record of duty performed of FOUR WATCHMEN and FIFTEEN NURSES, as more fully explained in the letter below.

THE E. HOWARD WATCH and CLOCK CO.

383 Washington Street, Boston.

41 Maiden Lane, New York.

170 State Street, Chicago, Ill.

McLEAN ASYLUM,

SOMERVILLE, MASS., May 19, 1885.

TO THE E. HOWARD WATCH AND CLOCK CO.:

Gentlemen,—Our Electric Watch Clock is doing its work very satisfactorily. It is unnecessary to speak of its well-known value in recording the movements of the night watchman, firemen, etc. The extension of the system, by using a dial for the night supervision, is especially valuable in such an institution; their visits to all parts of the house, hourly or oftener, being recorded whenever made, whether regularly or irregularly. It is a convenience, also, that the order in which the stations are visited may be varied, according to the requirements of the case, from time to time.

I think the peculiar features of the clock,—which I understand is first applied in this one, for such a purpose,—of recording the attendance of each of our fifteen nurses on duty at night, will prove to be very useful.

The arrangement of the single dial used for all these persons is ingenious, and the record is entirely intelligible; and each nurse can be required to make a record more or less frequently every hour, as may seem desirable.

The working of the clock is very perfect and reliable, and gives us a sense of security that is much to be desired.

Very truly yours,

EDWARD COWLES,

Medical Supt.

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THE E. HOWARD WATCH AND CLOCK CO.

CLOCKS MANUFACTURED and in OPERATION

UNDER OUR RECENT PATENTS,

AND ARE NOW BEING USED BY THE FOLLOWING PARTIES, TO WHOM WE WOULD REFER.

MAINE.

ANDROSCOGGIN MILLSLewiston.
BARTLETT, L. P., JR., & Co.Norway.
CONTINENTAL MILLS.....Lewiston.
DENNISON PAPER MFG. Co.....Mechanic Falls.
HARRIS, JOS. & SON....."
PEPPERELL Co.Biddeford.
SPINNEY, B. F. & Co.....Norway.
WARREN, S. D. & Co.Cumberland Mills.
YORK MFG. Co.Saco.

NEW HAMPSHIRE.

AMOSKEAG MFG. Co.....Manchester.
CHENEY, P. C. & Co....."
JACKSON MFG. Co.Nashua.
JONES' BREWERY.....Portsmouth.
KIMBALL & GERISH.....Manchester.
MOODY, ESTABROOK & ANDERSONNashua.
NASHUA MFG. Co."
SAWYER WOOLEN MILLSDover.
STATE HOUSE.....Concord.
THE WENTWORTH (HOTEL)Newcastle.
TROY BLANKET MILLSTroy.
WHEELER, J. M.....Salem.

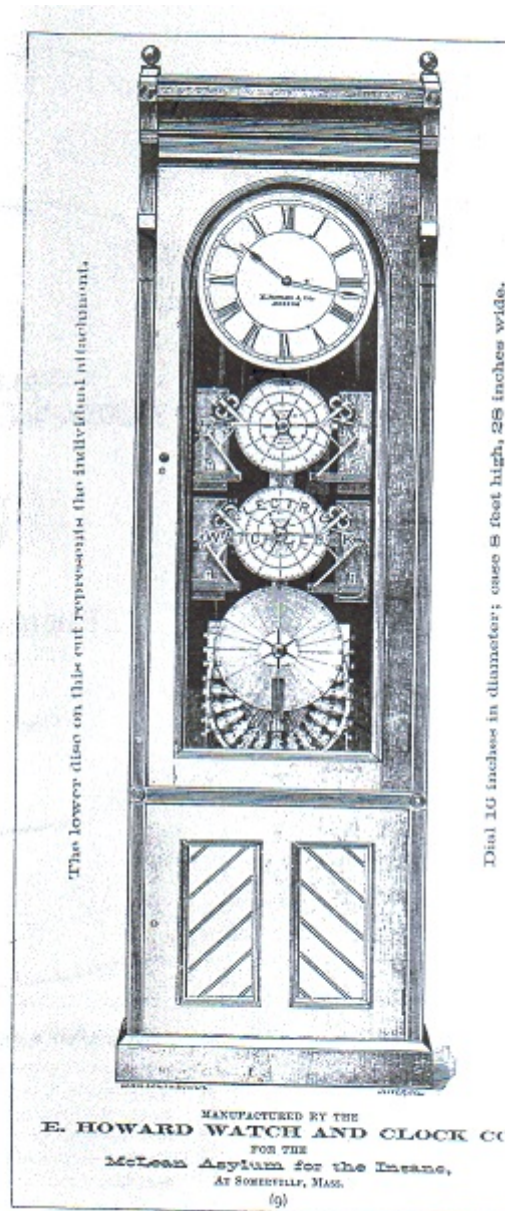
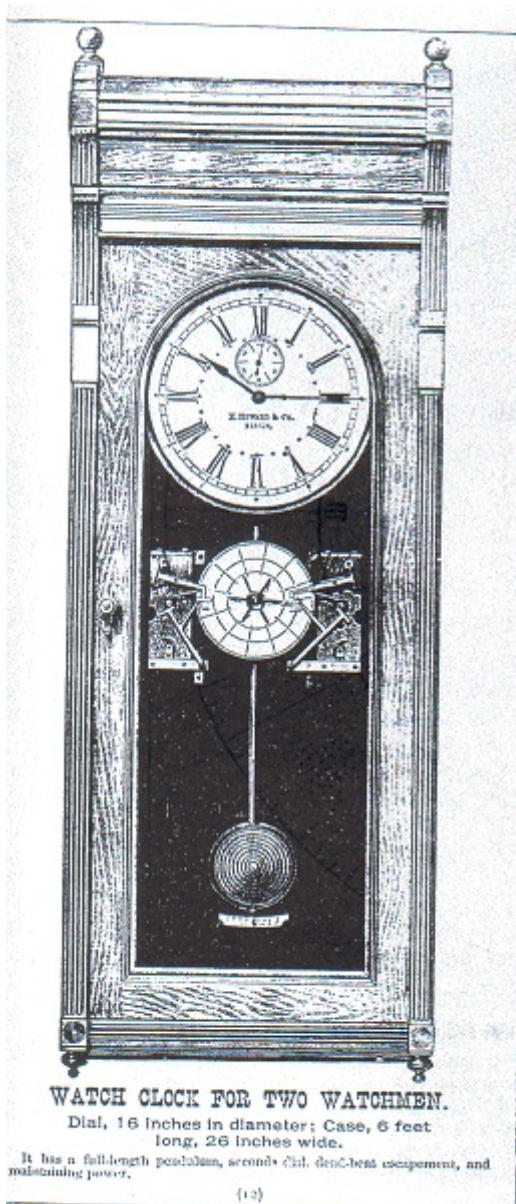
VERMONT.

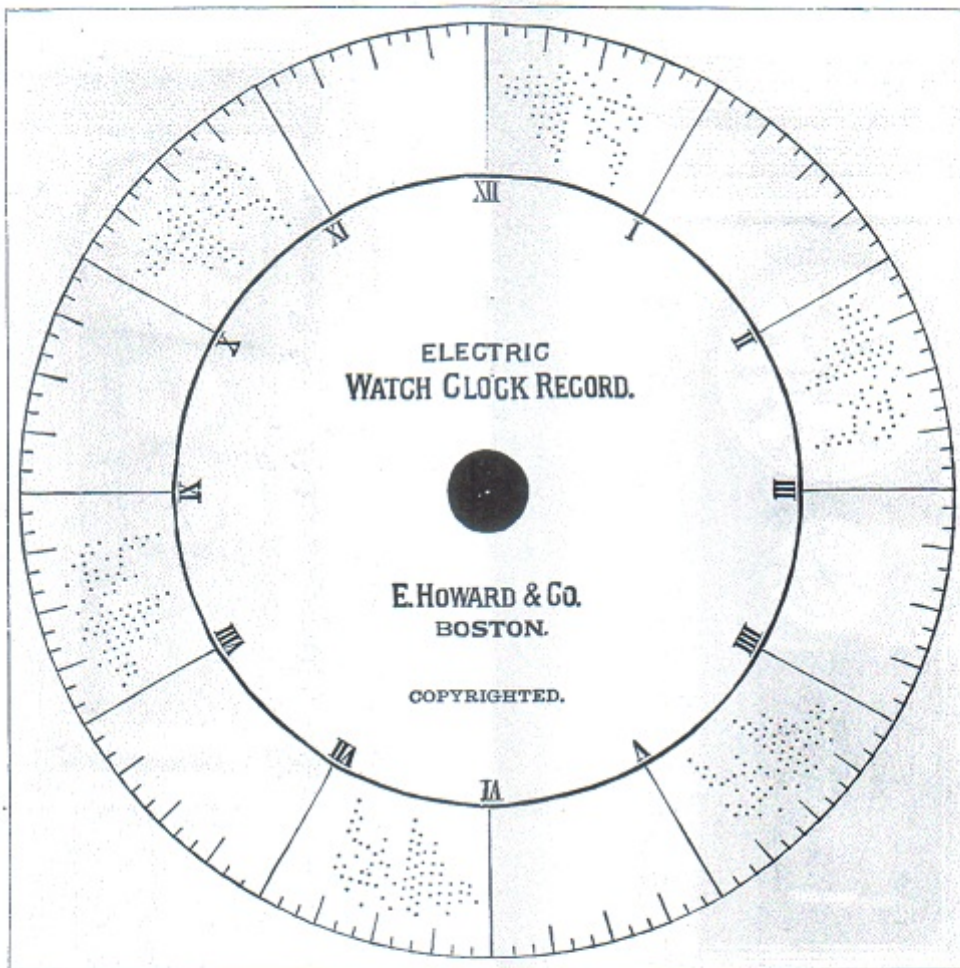
DEWEY, A. G.Quechee.
E. & T. FAIRBANKS & Co.....St. Johnsbury.

MASSACHUSETTS.

ART BUILDINGBoston.
AMERICAN TOOL & MACHINE Co....."
ADAMS HOUSE....."
AMERICAN PRINT WORKS.....Fall River.
AMERICAN LINEN Co."
AMERICAN TOOL & MACHINE Co.....Hyde Park.
AMERICAN PRINTING Co.Fall River.
ATLANTIC COTTON MILLS.....Lawrence.
APPLETON Co.Lowell.
ACUSHNET MILLS.....New Bedford.
ARNOLD PRINT WORKS.....North Adams.
BALLARD VALE WOOLEN MILLSBallard Vale.
BARTLETT BROS.North Adams.
BLACKSTONE MFG. Co.Blackstone.
BOSTON CORDAGE Co.Boston.
BOSTON FIRE DEP'T REPAIR SHOP...."
BOSTON GAS Co....."
BOSTON & ALBANY R. R. Co."
BLY, CHAS. L."
BOSTON & PROVIDENCE R. R. Co....."

(13)





EXPLANATION OF WATCHMAN'S RECORD.

This is an illustration of the record of six rounds by the watchman, each round made once in every two hours, using seventeen stations. The dashes upon the margin divide the time in five-minute spaces, and the figures indicate the hours. The rows of dots indicate the stations. The time at which the record was made is shown by the relative position of dots to the time marks on the margin. One dot, thus, . is station one; two dots, thus, . . is station two; one dot, space and two dots, thus, . . . is station twelve.

9	24
8	23
7	22
6	21
5	14
4	13
3	12
2	11
1	

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