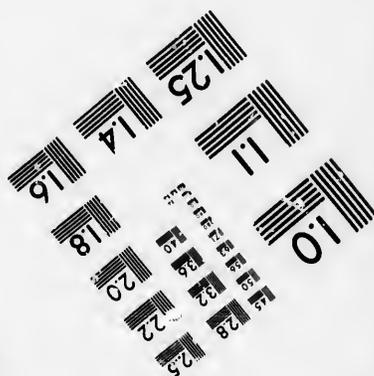
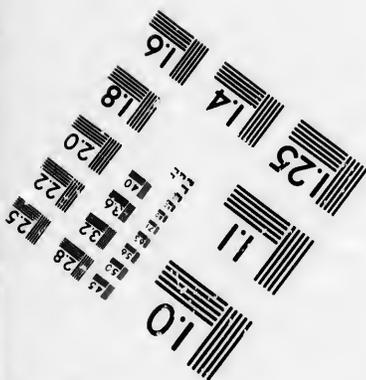
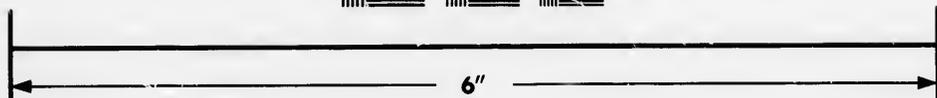
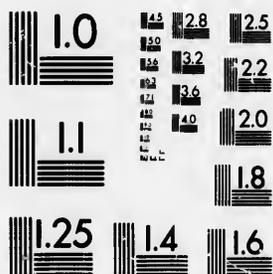


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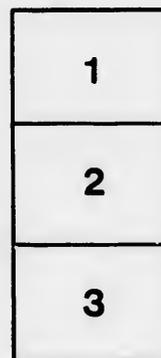
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LIGHTNING

PROTECTION TO LIFE AND PROPERTY
BENEFICIAL EFFECTS OF

300,000 FEET

NEW PATENT ENGLISH

GALVANIZED, ANNEALED

LIGHTNING

Just arrived from England with *SPRATT'S* renowned *Platina Tip*

This justly celebrated Rod is prepared in England with especial reference to the best authorities. The White Non-corroding Surface prevents rust and greatly improves the old rod. Electricity in passing over a conductor, seeks the surface. A perfect surface—but it is absolutely essential that the surface should be bright, entirely free from impurities—we combine both of these qualities—for according to Prof. Kent,—(See Reference to the Rod proper, which was made perfectly bright before being galvanized. Second a tube surrounds the Rod like a tube—besides, the Rod having been previously carbonized is stronger than common iron. One great advantage gained by the ease with which this rod can be connected to the earth the positive electricity of the approaching thunder cloud surcharged with lightning, is that it is conducted safely to the ground; we have then a preventative in most cases—a cure in no way ever offered to the public. Prof. Croft had a *Spiral Copper Rod* removed from a lightning rod as he says, of the perfect conducting power of the surface, and not being liable to rust. It was used at the House, at Hamilton; on the Welland R. R. Elevators, as well as on many of the best lightning rods erected them at a trifling advance upon the Carbonized Rod. Common Iron Rods, as we consider them nearly useless.

ONE THOUSAND DOLLARS CHALLENGE to the world to produce as good a rod as now prepared to offer to the public through our authorized Agents. Farmers and mechanics who has not our white electro Galvanized Rod. Orders sent to our address

as he says, of the perfect conducting power of the surface, and not being liable to rust.

T N I N G !

AND PROPERTY, AGAINST DIRECTS OF LIGHTNING.

FEET OF THE

ENGLISH ELECTRO-

ANNEALED AND CARBONIZED

NING RODS,

renowned Platina Tipped Point and enlarged Insulators and Attachments.

Special reference to its great conducting powers ; is highly approved and recommended by *vents rust* and greatly increases its conducting power, completely obviating the great objection *ks the surface*. A perfect Lightning Rod must not only have a sufficient conducting *sur-* bright, entirely free from RUST, PAINT, TAR, or other non-conducting material. In our Rod *f. Kent,—(See References)*, we have three distinct conducting surfaces. First, that of the *alvanized*. Second and Third, the *inner and outer surfaces* of the white metal coating which *previously carbonized and annealed*, is by this process alone, made a far better conductor with which this rod conducts electricity, is that it constantly receives and silently conveys *er cloud surcharged* with this element of destruction and death, and by this means to a great

But if by reason of too great accumulation of electricity the discharge takes place, all is *most cases—a cure in the emergency*. Forming the most sure and perfect Lightning Conduc- *per Rod removed from the University Buildings, Toronto, and substituted this, on account,* *not being liable to rust*. We have erected them upon the Crystal Palace, and Custom *as on many of the best buildings in this city*. By importing largely for cash, we are enabled to *Common Iron Rods, such as are being offered by parties from the States we do not erect,*

world to produce as good a Rod for the same price, as the *Galvanized Rod* which we are *agents*. Farmers can you tell *WHITE* from *BLACK* ? then, allow no man to protect your build- *sent to our address from the principal cities of C. W., will be attended to by O. R. Kendall*

not being liable to rust. We have erected them upon the Crystal Palace, and Custom

... as he says, of the perfect conducting power of the surface, and not being liable to rust. House, at Hamilton; on the Welland R. R. Elevators, as well as on many of the best erect them at a trifling advance upon the Carbonized Rod. Common Iron Rods, such as we consider them nearly useless.

ONE THOUSAND DOLLARS CHALLENGE to the world to produce as good as now prepared to offer to the public through our authorized Agents. Farmers and Millwrights who has not our **WHITE** electro Galvanized Rod. Orders sent to our address in person, without extra charge. We submit a few of our numerous references.

H. & N.

My Shop was struck by lightning and burnt, my House, some 80 feet distant, was uninjured. My House had Lightning Rods erected by O. R. Kendall, my shop had none
HUGH MULLEN, Bowmanville.

Toronto, Sept. 5, 1860.—I hereby certify that I have superintended the erection of Galvanized Iron Rods on the University Buildings at Toronto, preferring the Galvanized Iron to ordinary Iron Rods, on account of the *perfect conducting power of the surface* and from their *not being liable to rust*.
The advantage resulting from these qualities is more than commensurate with the increased cost.

HENRY CROFT, D. C. L.,
Prof. of Chemistry, University College, Toronto.

UNIVERSITY COLLEGE, Toronto.—Messrs. PIPERS & KENDALL,—I am satisfied that Galvanized Iron Lightning Conductors, such as you recently attached to my house and offices, afford a very efficient protection against Lightning. Not only is the conducting power of the Rod very much increased by the coating, but it is more durable, not being liable to rust.

I also approve of your mode of connecting your Rods by means of Malleable Iron Nuts, which secure a continuous conducting medium, from the platinized point to the earth, and likewise, that you adopt the precaution of bending the bottom of the Rod from the Building, and continue it until you come to some permanently moist stratum.

Spratt's Platinum Tipped Point is undoubtedly a very superior upward termination for a Lightning Rod.

(Signed,) **JOHN HERBERT SANGSTER,**
Lecturer in Chemistry and Nat. Philosophy, Pl. N. School, and Prof. Chemistry, Medical Department, University, Victoria College.

Messrs. PIPERS & KENDALL,—The Galvanized Rod you showed me, I highly approve of, from its freedom from any liability to rust, and increased conducting power. I also consider the improvement you have made in the attachments and Insulators of a very great benefit, as they tend greatly to its permanency.

W.M. KAUFFMANN, Architect and C. E.
Toronto, May 14, 1861.

Toronto Township, April 4 1860—I hereby certify that in the month of July, a Lightning Conductor, erected by Mr. O. R. Kendall, and Manufactured by Piper & Kendall, 83 Yonge Street, Toronto, was in my presence struck with Lightning, and it safely conducted the shock to the earth, where it cleared a space, throwing particles of straw and grass several feet against the Barn; hav-

We could multiply such certificates and statements as above to almost any amount did space allow us. exactly similar circumstances. Spratt's Points in every case stood the test, whilst others failed:—**JAS. B. MARIPON; JAS. LITTLE, Whitby; CLEMENT DAWES, Brookliu, twice; J. C. STERLING, Greenwood, and**

ing placed my hand on the Rod immediately that I was obliged to withdraw it at once.

(Signed)
4th Con., 5th I

Witness, **WM. SPARROW.**

WHITBY, April, 1860.—GENTS.—The Lightning Rods of your Agents on my Hotel in this place were very heavy charges of lightning, which it struck, rending the earth, and covering the ground with sparks. No harm was done. The Spratt's Point when first put up. I recommend them highly.

TORONTO OBSERVATORY, Sept 9, 1857.—The Lightning Rod Tipped Point a good one for Lightning is an essential part of it. &c., &c.

J. H. L.

I entirely concur with Capt. Lefroy's opinion.
HENRY CROFT,

THURSDAY, June 10, 1861.—Mr. O. R. Kendall, I enclose ten dollars—please endorse on the check—will remit balance soon. Your Rods are the best. The one on my shop was recently struck and at foot of the Rod. I showed it to you and you advised me to send the Rods to all
I am, respectfully,

BOWMANVILLE, Feb 18, 1860.—Mr. O. R. Kendall,—On Saturday last, during a violent thunder storm, a Lightning Rod erected on my house by your agent Piper & Kendall, conducted safely to the ground a very heavy charge of lightning, covering the Rod with a dark blue smoke, where it went into the ground. The flash was so violent, violently jarring the window panes, and I felt satisfied that the lives of myself and family were in this instance. I hasten to express to you that I was persuaded, almost against my will, and to urge others to do likewise.

Gratefully yours,
C. F.

I certify that the Lightning Rod erected by O. R. Kendall, was on the twenty-first of July struck by a heavy charge of lightning, which it conducted to the ground—notwithstanding, one glass

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Jas. Bishop
Agent
By R. P.
C. West

not being able to rust. We have erected them upon the Crystal Palace, and Custom
as on many of the best buildings in this city. By importing largely for cash, we are enabled to
Common Iron Rods, such as are being offered by parties from the States we do not erect,

world to produce as good a Rod for the same price, as the Galvanized Rod which we are
agents. Farmers can you tell WHITE from BLACK? then, allow no man to protect your build-
ment to our address from the principal cities of C. W., will be attended to by O. R. Kendall
numerous references.

H. & N. PIPER & KENDALL,

88 Yonge Street, Toronto.

REFERENCES:

hand on the Rod immediately after, I found it so hot
to withdraw it at once.

(Signed,) **JAMES PRICE,**
4th Con., 5th Lot, Toronto Township.
SPARROW.

April, 1860. — **GENL.** — The Lightning Rod erected by
agents on my Hotel in this place, was struck with a
charge of lightning, which it conducted safely to the
ground, and covering the rod with a sulphurous
substance was done. The Spratt's Paint was as good as
any. I recommend them highly.

WM. GAGE.

OBSERVATORY, Sept 9, 1857. — I consider Spratt's Pla-
tina a good one for Lightning Rods. The platina tip
is the best part of it. &c., &c.

J. H. LEFROY, Captain R. A.

concur with Capt. Lefroy's observations.

HENRY CROFT, Prof. of Chemistry, &c.

June 10, 1861. — **MR. O. R. KENDALL,** — DEAR SIR, — I
enclose please endorse on the note you hold against
me in full balance soon. Your Rods give great satisfaction.
My shop was recently struck by lightning; it tore the
roof off the Rod. I showed it to several, and can recom-
mend it to all
respectfully,

WM. PARNALE.

Feb 18, 1860. — **MR. O. R. KENDALL,** — DEAR SIR,
I was last, during a violent thunderstorm, the Lightning
Rod on my house by your agent P. C. Himes, received and
conducted to the ground a very heavy charge of Lightning.
The Rod with a dark blue mould and melting the ice
into the ground. The flash was blinding and the
noise, violently jarring the windows, but doing no injury.
I thank the lives of myself and family have been saved.
I hasten to express to you the joy I feel to think
I have procured, almost against my will, to have the Rod.
I shall be glad to have others to do likewise.

C. F. SCHLEGELMILCH.

The Lightning Rod erected on my house by an agent
of yours, was on the twenty-sixth day of May, 1860,
struck with a heavy charge of lightning, which it conducted safely
to the ground, notwithstanding, one glass was previously broken —

amount did space allow us. We give the names of a few persons whose Rods have protected their Buildings under
such circumstances: — **JAS. BEATTY,** Trafalgar; **JNO. RAINE,** Chiquacousy; **ALLEN TRULL,** Darlington; **WM. TOOL**
FEELING, Greenwood, and many others.

the fixture remaining was badly twisted and partly melted.

JOHN DALE, 2nd Con., 7th Lot., Toronto Township.

NEW CASTLE, June 2nd, 1862. — **R. B. LYMAN, Esq.,** — SIR, — In
answer to your question of 28th ult., touching the comparative me-
rits of Lightning Conductors, I may state the following conditions
which affect the conduction of metals. First, Electricity travels upon
the surface. Second, The crystalline condition, (that of rust,) of-
fers resistance, amounting to non-conduction in many cases, even
of the best of metals. Third, Oils, Paints, Oxides of Metals, Resins,
Tar, &c., are very poor conductors if conductors at all. The New
English Rod, embodies the combination of the fibrous, Annealed
and Carbonized conditions, each opposed to rust, and favourable to
conduction of Electricity, and besides, and most important of all, the
white metallic coating offers three surfaces, external and internal
of the white metal, and external of the iron; and lastly the Galva-
nized relation of the iron and the white metal, entirely prevents
rust; common iron is very crystalline in structure. The process of
painting or tarring Rods to prevent rust, is simply substituting one,
non-conducting surface to prevent another forming. From the above
you will easily see, I consider Galvanized Rods infinitely superior to
the tar coated ones. Allow me to add, that twenty years of ex-
perimental research have convinced me that the foregoing are laws
which govern the conduction of Electricity, so far as metals are
concerned. Yours truly,
A. B. KENT, Prof. of Nat. Science.

COLBORNE, June 11, 1862 — This is to certify that I have seen the
lightning strike the Rods erected on my driving shed, by Mr. O. R.
Kendall's agent, at two different times, without the least injury to
the building. It made a distinct rupture in the ground, at the base
of the Rod, which was also coated with a bluish substance.

F. B. STRONG.

REACH, Feb. 10, 1862. — **O. R. KENDALL,** — DEAR SIR, — I am
satisfied that my barn and all my grain, &c., was saved from des-
truction by your Lightning Rods, which were struck last fall by a
very heavy charge of lightning.

GEO. BUSH.

INNISFIL, May, 1862. — **O. R. KENDALL,** — DEAR SIR, — I hereby
certify that during one of the most terrific thunderstorms of last
season, the lightning rod on my house was struck by a very heavy
charge of lightning which it carried safely to the earth, and I am
satisfied that myself and family were saved from injury by it.
Having seen the new Galvanized Rod which you have introduced,
and considering it far superior to all others; I have had the old
Black Rod removed, and substituted the new which will not rust.

Yours Respectfully,

THOS. BATEMAN.

H. & N. P. & K.

Office of the "STAK," Paris, C. W.

