The Nuernberger-Rettig (aka "Universal") Type-Maker

History 🏍 Mechanics 🖙 Future



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Reassurance

Don't be alarmed by the excessive verbiage and detail in this presentation. I'll just cover the highlights now. If you're interested, you can read the fine print later - it will be online.



Abstract

The Nuernberger-Rettig (also called the "Universal") type caster was one of several machines in the early 20th century which promised to make "Every Printer His Own Type Founder." This presentation will discuss its history & limited success, its operating principles & some of its interesting mechanical features, and the survival of a few machines & rebuilding of one of them.



From Legros & Grant. Note that the cover on the left is heavy cast iron - it is not transparent!



Acknowledgments

My thanks to all of you, and especially

Sky and Johanna Shipley Patrick Goossens Gregory Jackson Walters R. Stanley Nelson Mark Knudsen Troy Groves Victor Thibout

£ In memoriam David C. Churchman



Part 1: History



Why Did the N-R Come to Be?

- Collective Insanity

- Failed Unionism



"Every Printer His Own Type Founder"

Compositype (1899)



John E. Hanrahan, principal type designer for Ryan Type Foundry



Nov. 24 1908. Chalfant patent for T&R Caster matrix holder (filed 1907)

Monotype, Sorts & Display Casting (1903)

1905 filings of patents for jet-breaking mold

N-R (1907)





Thompson (1907)

Initial focus on Linotype matrices (John S. Thompson published *Mechanism of the Linotype* in 1902)

All were intended for the *printer* as end-user, not the type founder.

This phrase was never used by these companies themselves, but rather by type foundries in attacking them. The Keystone Type Foundry wrote of the "shameless business" and "wild schemes of certain machine builders" at the time the Thompson and Nuernberger-Rettig were introduced. See the "Keystone Insert" 1st issue (July 1907) & 2nd issue (Aug. 1907) in *The Printing Art*, v. 9. See also the 1910 ATF advertising later in this presentation.

I believe that it is a reference to the subtitle of Oliver Wendell Holmes' popular 1858 essay collection, The Autocrat of the Breakast Table: Every Man his Own Boswell.

Type Casters You Could Buy: 1900-1910

	Schokmiller pivotals (Keystone, Western)		Bannerman
USA	Compositype		Bhisotype (unsure if produced)
	Inland T.F. overseas sales	IIV	Legros & Grant Rapid Caster
	Monotype, sorts casting	ΟK	Monotype, sorts casting
	Nuernberger-Rettig		pivotals by Wood, Miles & Co.
	Thompson		pivotal "automatics" by Davis
	•		pivotals by Williams Engineering (at the Nodis Works)
	Böttger, automatic (dates?)		Nodis Rapid Caster
DE	Küstermann, System Foucher		
	also System Kisch & System Küstermann,		
	but unsure of dates for these		

Foucher automatics, duplex automatics FR

Other machines used but not for sale

Schelter & Giesecke pivotals

possibly Stempel, not sure of dates

In-house pivotals, everywhere Barth (ATF) Inland T. F. in-house machines Hardinge (1907, Advance T.F. 1912) Ziegler (used for space & quad, MSJ & ATF) P.M. Shanks (UK)

There may be some "ghosts" in this list, but there are also machines missing. In general, there were more machines available than we tend to remember.



Striking Developments

- There was only ever one typefounder's union (workers, not owners): The Typfounders' Trade District Union of the ITU
- It only ever held one strike, from 1903 to 1904 At least: ATF, BB&S, Keystone, Lindsay
- It lost
- Philip G. Nuernberger was its President (also 5th VP, ITU (Chicago)), and primary negotiator with Robert W. Nelson of ATF
- At times George Rettig also Vice-President (Typefounders, Chicago)

Nuernberger and Rettig were unlikely to be made welcome as employees after this.



"Reports of Officers and Proceedings of the Fiftieth Session of the International Typographical Union Held in Saint Louis, Missouri, August 8 to 13, 1904." Supplement to *The Typographical Journal*, Oct. 1904. pp. 17-19, 41-41.

Robert W. Nelson Walden's Stationer and Printer, v. 34, n. 14 (August 10, 1911): 33



Philip G. Nuernberger

Born 24 Sept. 1863 in "Heisen" [possibly Grand Dutchy of Hesse], now part of Germany

Emigrated to USA in 1865 Died 28 Oct. 1946 in Cook County, IL Married twice: Amelia Laufer (1866-1905) on 5 Mar. 1890 May Dunn (1880 - 1963) on 25 Apr. 1906 ~ 1900-1904 Active in the Typfounders' Trade District Union of the ITU 1901: Issued patent assigned to BB&S 1906: Described himself as a "Manufacturer" 1911: Vice-President of U A T M Co. 1916: Joined the Thompson Type Machine Co. 1940: Proprietor, Type Setting Machine Repair

Our other link to him:

In 1931, he wrote a long and detailed letter to Archie J. Little (Seattle) on the technology of matrix electroforming. Little was Paul Hayden Duensing's mentor, and PHD published this letter in 1966. Late 20th century enthusiasts' matrix making owes a lot to PGN.



The Inland Printer, v. 56, n. 3 (Dec. 1915): 403.



George Rettig [Sr.]

Father of "our" George Rettig, Jr.

Born in Prussia in 1840 Came to US no later than 1874 Listed as a Type Founder in 1880 census Patented an automatic jet-breaking type mold in 1885/6 This anticipated the N-R jet / foot groove mold. Lawsuit by ATF against Farmer over this. Patented a Type Rubbing Machine in 1886/7 Assigned to Barnhart Brothers & Spindler Died 1929, buried in Chicago







 Jet-breaking:
 US 354,935 issued 1886-12-28, not assigned.

 Lawsuit:
 Nelson et. al. v. A. D. Farmer & Son T-F Co. 95 Fed 145, No. 160 (1899)

 Type-rubbing:
 US 370,819, issued 1887-10-04 & assigned to BB&S



George Rettig, Jr

Born Jan. 2, 1874, in Chicago 1900 Census gives his profession as Machinist Single as of 1900 Census Married Elizabeth Klarges by 1903/4 Two children: Dorothea Anita Rettig and George Rettig Jr. [3rd] Active in the Typefounders' Trade District Union of the ITU (ca. 1904) 1910 Census gives his profession as Superintendent, Machine Shop Secretary of the U A T M. Co. in 1911 Died 1913, buried in Hillside, IL (suburb of Chicago)

No patents other than those with PGN for the N-R caster No known photograph



Company History

1904 Typefounders' strike broken 1905 April 22. Jet-breaking mold patent filed 1905 (June-Dec.) Business license filed/issued in Chicago as "The Universal Automatic Typecasting Machine Co." 1907 First ads for Nuernberger-Rettig Type-Casting Machine; trade announcements Company at South Jefferson St., Chicago 1907 PGN travels to Europe with a machine 1910 Mergenthaler Linotype becomes a reseller of the Nuernberger-Rettig 1911 Listed as U A Typecasting M Co., Nuernberger VP & Rettig (Sec.) Sheldon St., Chicago, in the Chicago Printing Trades Blue Book (Sheldon St. now has several other names) 1911 (Through August) Advertising the "Nuernberger-Rettig Type-Casting Machine" by the U A Type-Casting M Co., 321 N. Sheldon St., Chicago (The Inland Printer, v. 47, n. 5 (Sept. 1911) 1911 By November, Mergenthaler Linotype had ceased reselling the N-R 1911 Sept. announcement that the "Universal Type Making Machine Co." has succeeded the Universal Automatic Type-Casting Machine Co. Addresses at Harrisburg, PA and Chicago. (The Inland Printer, v. 47, n. 6 (Sept. 1911): [front advertising matter] N.B. Later addresses in New York City, and references to a matrix library there. 1911 (Dec. 9) U T-M M Co. (321 N. Sheldon, Chicago) purchases matrix library and all rights from receiver of the National Compositype Company. 1914 Trade notes in The Inland Printer still put them at 321 N. Sheldon, Chicago By 1915 Nuernberger and another employee had left and joined TTMC 1921 Delaware charter revoked for 2 years of nonpayment of fees (so company folded on or before 1919) Inconclusive & Contradictory Reports in the Trade Press - 1911 Worcester, MA magazine suggests they moved there from Chicago - 1918 NY Printing Trades Blue Book says they're on 8th Ave., NYC - 1918 British source suggests that the UT-M M Co. purchased the TTMC (!)

Summary: 1905 - 1911:	Expansion under initial ownership	N-R	by the UATMC
1911	Failure of their channel partner relationship w/MI	LC	
1911 - 1914:	New ownership	UT-N	1 by the UTMMC
1915 - 1919:	Confused Decline		1914: UT-C



Announcement 1907

419

THE INLAND PRINTER

THE NUERNBERGER-RETTIG TYPECASTING MACHINE

The Nuernberger-Rettig typecasting machine, built by the Universal Automatic Typecasting Machine Company, at 32 South Jefferson street, Chicago, shown in the accompanying figure, is an improved hand or power casting machine, largely on the model of the regular typefoundry casting machine, which is in use to-day in many foundries and for many years was the only practical machine previous to the introduction of the automatic casting and dressing machines with which the large modern foundry is now fitted

Phillip Nuernberger, George Rettig and John West, the operative partners, are all men who have spent their lives in the typefoundries and hence, as professionals, know what is required for the successful, accurate and economical production of type, and it is therefore only natural that they should have fol-

lowed the lines laid down by expe-rience in a lifetime of active work in type manufacture.

The illustration shows the machine, which occupies about two feet square of floor space, is fitted with a gas melting pot and with regular molds and matrices, such as have made the majority of type in this country.

The old casting machine was largely a development and it contained many things which, while not absolutely necessary, were adopted as economical conve-niences in a typefoundry which was operating with molds of varying sizes and machines made anywhere from ten to fifteen years apart. These have all been discarded in the production of the present machine and strict attention has been given to producing a machine that will make solid type from six point to three-line nica with absolutely interchangeable molds and matrices of standard line and standard set. In doing this the mold block has been done away with and the mold is mounted directly on the vibrating plate, being held in position by two hollow steady pins, threaded on

in position. It is the regular typefounder's mold, with the exception of a movable jet-piece, which is withdrawn by spring pressure as the mold leaves the pump and carries with it the jet, so that the type requires no breaking and no dressing to make it "type-high."

The nick is in the foot of the mold, as in ordinary foundry type, and the jet is broken from the upper portion of the curve, so that the feet are perfectly formed by the mold, and when the jet is broken away by the expansion of the spring the type drops out perfectly formed. Matrices may be rented at \$1 a day, and in such cases

the time is computed from the time of delivery by the express company to the printing-office until the matrices another in three minutes have been delivered at the express office for return to the

general office, a dated receipt being taken from the express company and showing in each instance how long the matrices have been held. Thus the printer is not charged with the matrices from the time they leave the general office, but only for the time during which they remain in his possession. Matrices may also be purchased and arrangements may be had to use matrices of other companies by making suitable holders to fit on the machine

The printer who has followed closely this description of the arrangements will therefore see that this is the most direct and complete method of casting that has ver been placed within his reach, as exact foundry methods are followed and perfect type must be the result, with any ordinary care on his part. Indeed, with a few of these machines and a stock of

matrices he would own his own typefoundry, as there is no rubbing, breaking or dressing to be done, the type falling com-plete from the machine ready for use as soon as it is cool The matrices will be sold for \$25 per set of seventytwo, or they may be rented, as previously stated. The average product from the machine per hour is:

A much greater out put than this has been secured in the shops of the company, but we do not give the extreme output, as the test was conducted by skilled experts, while the mahine is designed for printers who have yet to become skilled in the casting business. The operation is quite simple. The

metal will be properly heated about threequarters of an hour

when the metal has reached a casting temperature. With the mold set, the matrix in its proper place and the power turned on, the machine will then automatically turn out good type. Molds have been changed — that is, a six-point mold

casting made in one minute and thirty seconds, no adjusting of the pump or any part of the machine being necessary. This, of course, is expert work; but any printer, after becoming reasonably familiar with the machine, should be able to change from one size of type to

Another important feature is that in each instance the

Initial claims:

- 6 pt to 36 pt ("three line pica")
- Only N-R matrices
- ease of use by printers
- automatic jet breaking mold
- matrix rental or purchase
- 90 seconds to change a mold (!)

"... the production of his own type is robbed of its terrors and becomes a very attractive and economical proposition for the printer, ..."

The Inland Printer, v. 39, n. 3 (June 1907): 419

THE NUERNBERGER-RETTIG TYPECASTING MACHINE their interiors to receive the screws which hold the mold after lighting the gas. A thermometer in the pot shows



Reference Accounts 1907/1908

Early N-R ads all involve reference accounts. This is a high-tech but probably undercapitalized startup company -

reference accounts are vital.



The Inland Printer, v. 40, n. 2 & 5 (Nov. 1908, Feb.1908): 292, 796)



The Inland Printer, v. 40, n. 2 (Nov. 1908): 280)

While simultaneously, Thompson ads assumed success.



Aggressive Advertising 1909/1910



December

January

February

The Inland Printer, v. 44, n. 3, 4 & 5 (Dec. 1909, Jan. & Feb. 1910): 465, 607, 655

Note that they now claim 5 pt to 48 pt (vs. 6-36 originally, and 5-36 for the 1908 Thompson)



A Powerful Ally (for a while)

We'll tell you all about it if you ask u

THROUGH MERIT ALONE

Is proving its value in the modern composing room

YOU take no



Editor and Publisher. v. 9. n. 39. 41. 42 (Mar. 26, Apr. 9, 16 1910): 12, 12, 4



HICAGO

Digitized by Google

But in 1911 Linotype began reselling the Thompson

(Announcement in the Linotype Bulletin, v. 7, n. 11 (November 1911): 86)



The Empire Strikes Back

Every Printer His Own Type Founder as absurd as Every Business Man His Own Printer

For some months we have been demonstrating to the printer that for the sake of saving \$300, or even \$500 a year, he cannot afford to *spend twice that amount* in labor and other expenses, and *several times that amount* as a permanent investment in plant, to which he must add hundreds of matrices every year to become his own type founder.

The expenditure of between two and three thousand dollars for a casting machine and matrices, and the sure necessity of spending several hundred dollars *every year thereafter* for matrices and supplies, together with hundreds of dollars for labor and other expense, ought to be so self-evident to every printer as to cause him to turn down such an unnecessary and extravagant investment when his working capital can be used to so much better advantage in his printing business.

The *eloquent machine salesman* will demonstrate that a printer can produce seven or eight hundred dollars' worth of type which he might require during the year—although very few buy that much—and save thereby two or three hundred dollars, but he never figures for the prospective customer the actual cost of the labor, supplies, matrices, gas, interest, depreciation, overhead expenses, etc., and the inadequacy of the few hundred matrices which he at first supplies.

This Company has over four million matrices, and yet it cannot meet the requirements of many of its customers without constantly making new matrices.

As we produced last year over twenty thousand matrices, what will it cost a printer to keep up with the requirements of his business for casting his own type even to a limited extent?

Of course the *eloquent salesman* only figures the cost of metal, and the cost of labor when the machine is fully occupied eight or nine hours a day, and assumes the printer can keep his machine busy 300 days in the year.

When the Cost Committee of the International Cost Congress gets fairly into the minds of printers what overhead expense means, and what idle time means, those printers who have not considered those points will realize that their labor expense, their overhead expense, and all their actual expense of casting type amount to a good deal more every year than their entire annual purchases of type.

Besides, they will be limited to a few faces and a few sizes, whereas a far less expenditure of money will enable them to select at low prices large *weight fonts* from the American Type Founders Company of any of its present faces, and of the new ones continually coming out.

"The man with the casting machine" is handicapped at once in competition with other printers who are selecting faces from our four million matrices and the new designs we are continually originating.

What would a printer think of a suggestion, if made by one of his customers, that he should do his own printing because he has a few thousand letter heads and bill heads to print during the year, and can buy the paper and a press and get the work done at apparently considerable less than the printer charges? The printer would at once call his attention to the big overhead expense and idle time, the necessity for variety of equipment, etc.

It is a fallacy, therefore, for every printer to become his own type founder, just as it is for every business man to become his own printer.

There may be exceptions to such rules. There might be a printer who did an enormous quantity of work with one kind of type, who did not care if the type and typography were inferior and who could use a casting machine continuously for 300 days in a year, just as there are business men who can keep a compositor and a pressman busy all the time.

But, certainly, no first-class printer can afford to burden himself with debt and continued expense and also tie himself down to limited faces and sizes and imperfect results by being his own type founder.

American Type Founders Company

613

612



Advertising and Naming 1911/1912



The Inland Printer, v. 47, n. 2 (May 1911): 335

1911/1912 "Nuernberger-Rettig" to "Universal Type-Maker" The Printing Art, v. 19, n. 1 (March 1912): 80





Advertising and Naming 1913

1913 "Universal Type-Maker"



The Inland Printer, v. 51, n. 5 (Aug. 1913): 793

93



Advertising and Naming 1914

1914 "Universal Type-Caster"





Compositype Kerfuffle

Compositype was co-founded by John E. Hanrahan, principal type designer for the Ryan Type Foundry (Baltimore), which had been a part of ATF since 1892 (Foundry H).



In April 1914 the Thompson TMC

advertised the acquisition of

"an entire Compositype matrix library" giving them

"the most complete matrix library in the world" to be made available for rent to all.

The Inland Printer, v. 53, n. 1 (Apr. 1914): 141

The Inland Printer, v. 53, n. 2 (May. 1914): 307

The Universal T-MMC was quick to respond, asserting their IP rights they'd purchased the Compositype matrix library from the receiver in 1911.



Range of Types Offered, circa 1914

Display faces to 48pt





Gothics



(Illustrations not to scale, obviously)

A new UT-MMC specimen book was announced in the *Inland Printer*, v53, n. 4 (July 1914): 610. It was probably the one now at Skyline Type Foundry (ex-Ludlow, ex-DCC/Sterling), from which these examples are taken.

Body faces

SERIES No. 1121



Typewriter faces



Outline faces



Borders & Ornaments



(Almost) Famous N-Rs

Goudy Had One





Deepdene before the fire. We do not know if he cast on it (it's on the wrong floor).

Victor Hammer's American Uncial

patheplate/lknow/batpephaps
the best time for me to call at that/
for l shall not interrapt you at
your work. Would you be so kind
as to show me the proofs of your
new ancial type-face you spoke of
the last time we met?

First size cast on an N-R at the Dearborn Type Foundry (Chicago)

Information from R. Hunter Middleton's *Victor Hammer: Artist and Master of the Printing Art* [*The Printing Salesman's Herald*, No. 14] (Chicago: Champion Papers, 1965). Text from Victor Hammer's *A Dialogue on the Uncial Between a Paleographer and a Printer* (Chicago: Society of Typographic Arts, 1946). Scanned by the Univ. of Illinois at Chicago.

Photograph from the Library of Congress, as shown in Bruckner, D. J. R., *Frederic Goudy* (NY: Harry N. Abrams, 1990): 62

Sterling Type Foundry





Ex-Sterling N-R matrix (DeSoto logo), now at Skyline T.F. Sterling No. 9421, Cast sideways: To machine: 72pt body, 24pt set To printer: 24pt body, 72pt set

Sterling T. F. specimen from Ollie McLaughlin era (Vermontville, MI)





Part 2: Mechanics



N-R Technology

The Nuernberger-Rettig is a pivotal type caster with an entirely conventional pivotal casting mechanism.

It adds

A transmission, with an intermittent motion (stop motion) for casting large type under power.

Patent molds (if so equipped) which cast the jet break within the foot groove of the type. These break the jet during type delivery and eliminated the need to plow a foot groove.

<u>It does not add</u>

Any mechanism for dressing the type.

Any mechanism for setting up the delivered type on a stick.

Water cooling



N-R Capacities

Type, spaces, quads

- original announcement: 6pt to 36pt
- advertising by 1910: 5 pt to 48 pt
 - (only a few series in 1914-era specimen > 36pt)
- ex-Sterling machines: up to 72 pt
- Nothing > 48pt in the literature,
- but 60 & 72 pt "U.A.T-C.M.Co." (pre-Sept. 1911) molds exist <u>Quotation Quads</u>
 - 1 1/2 x 2 up to 4 x 4 ems pica

Leads and Slugs

- 2 to 12 pt thick, 4 to 20 picas long

Styles of matrices

- N-R "foundry style" mats [TO DO: measure drive(s)]
- Compositype mats (flat mats, 0.043 drive)
- Mergenthaler Linotype & compatible mats
- Lanston display mats not mentioned in N-R literature

3. ex-Sterling molds exist marked "48APL", "48G", "60G" & "72G" - are these for A-P-L and Giant Caster mats?

^{1. &}quot;COMP" on an N-R mold means "Compositype," not "composition."

^{2.} The Compositype mat holder could handle "similarly shaped" mats.

This may have been code for "Lanston"; not sure if they made 0.050 molds.



What is a Pivotal Type Caster?



From Legros & Grant

(Their drawing is missing the Ejector Blade behind the mold.)



Patent Jet-Breaking / Foot Groove Mold



US patent 830,358 (1906)









A 36pt Jet-Breaking Mold

"Jet Parts" (PGN term) pushed in when mold locked up to nipple plate



Back (Jet Side)

Cut in lower Jet Part to retain Jet (is Rettig Sr. patent 354,935 of 1886)





📕 Pin



Front (Mat Side)

Stool













Many "solid jet part" molds are Space & Quad molds, but I'm not sure if they all are. [TO DO: measure drive(s)]



Allowing Large Types to Solidify (Other Approaches)



Haddon (1891)

Wood, Miles No. 4 (1910)

Barth No. 3 1/2

Thompson

"Dwell" is necessary for casting large types at reasonable rates of speed. The machine must run slowly (or pause) after the cast to allow large types to solidify, but may run more quickly during the rest of the cycle.

- Done by operator when casting by hand.

- May be provided by interrupted gearing (Wood, Miles No. 4 pivotal).
- Is provided by elliptical gears on the Barth No. 3 1/2.
- Is provided on the Thompson by its Stop Motion.

Machines for printers (Thompson, N-R) required a more elaborate mechanism to allow a single machine to run both high speed (for smaller types) and with longer dwell (for larger types).

A printer would probably have only one machine, where a typefounder would be more likely to have several machines over a range of sizes.

Haddon from an ad in *Typo*, v. 5, issue 50 (1891-02-28) at the NZ Electronic Text Collection. CC-BY-SA http://nzetc.victoria.ac.nz/tm/scholarly/Har05Typo-fig-Har05TypoP005b.html Wood, Miles No. 4 from Legros & Grant, but confirmed by an advertisement supplied by Bob Richardson at the St. Bride Library. Caveat: I don't know for certain that this machine employed interrupted gearing, but L&G use it to illustrate their paragraph which discusses machines which do employ such gearing. Thompson stop motion & Barth No. 3 1/2 elliptical gear photos by DMM. My thanks to Victor Thibout for pointing out this issue.



Nuernberger-Rettig Stop Motion





- Unrelated to Thompson "Stop Motion"
- When engaged, it keeps mold closed and against Nipple Plate after casting for 1, 2 1/2, or 5 full revolutions of the driving pulley
- I still can't explain the details of how it works, and I've had the machine apart (but have not run it *under power*). Sky has it figured out.



Water Cooling

- Uncommon on earlier and smaller pivotals, but not unknown
- Wood, Miles pivotals could be fitted, optionally, with an "Air Blast" for cooling.
- Necessary on fixed-mold machines (Foucher, Barth, Thompson, etc.)
 - to keep mold cool enough to allow type to solidify in reasonable time
 - to prevent overheating and drawing the temper of the mold.



(Left) An N-R Mold in its Mold Blocks on the bench at Skyline Type Foundry, showing the connections (and one hose) for water cooling.

(Right) Water cooling on a non-N-R pivotal. At the Dale Guild an ex-MSJ machine (?)



Photo courtesy of Patrick Goossens



Matrix Equipment



A Nuernberger-Rettig style matrix holder, with mat, on the bench. By itself (left) and assembled to Mold (below).





Part 3: Into the Future



Lineage of Surviving Machines <u>Five Confirmed</u>

s/n ?	s/n 172	s/n 193	s/n 194	s/n 259
?	?	? Univ. Type Univ. T-M Chicago	e-Maker ? M Co	? Univ. Type-Caster Univ. T-M M Co NYC
Henry Ford Museum		Sterling T.F. (Michigan)	Sterling T.F. (Michigan)	Baltotype
		Sterling No. 36 (white power switch)	Sterling No. 48 (black power switch)	
	Owen Stout (Paoli, IN) Gregory Jackson Walters	Sterling T F	Sterling T.F.	R. Stanley Nelson
		(Indiana)	(Indiana)	Roger Frith
				Bryce McCloud (Isle of Printing, Nashville)
				Skyline T.F. (Illinois)
	(via DMM 2014)	(via DMM 2013)	(via DMM 2013)	
Henry Ford Museum	Skyline T. F. (AZ 2014)	Skyline T. F. (AZ 2014)	Skyline T. F. (AZ 2014)	Skyline T. F. (AZ 2011)
(in storage)			(Rebuilt 2016)	



Surviving Literature

Verified/Available:

Specimen Book of Universal Type Caster Faces Including Borders, Ornaments and Miscellaneous Characters. Chicago: UT-MMC, n.d. (ca. 1914)

- original: Ludlow Typograph Co. -> ? -> Don E. Roseman -> ? -> DCC -> STF (2014) Scanned but not yet online - soon, I promise!
- extracts of front matter: photocopy via RSN & STF of Smithsonian (?) copy. Online.

Directions for Operating the Universal Type-Maker. Chicago: UT-MMC, n.d.

- photocopy via RSN & STF of Smithsonian (?) copy. Online.
- includes an illustrated parts list (line drawings)

Listed or Referenced:

The Nuernberger-Rettig Typecasting Machine (1907). Cited w/out data on openlibrary.org

Specimen Book of Type, Borders, Characters, Etc. Cast on the Nuernberger-Rettig Type-Caster. Chicago: UT-MMC, 1911

- Scanned by Google from an unidentified library. Not released for viewing.
- Copy at the Bibliotheek Universiteit, Amsterdam

Specimen Book of Universal Type Caster Faces Including Borders, Ornaments and Miscellaneous Characters. [Chicago]: UT-MMC, 1915.

- Scanned by Google from an unidentified library. Not released for viewing. Google's date of 1915 is likely a guess by the librarian who cataloged it this is probably the same as the ex-DCC Skyline specimen listed above.
- Also copies at Columbia, Harvard, Newberry, USC





Surviving Matrices

I can't really speak to this. Sky would know more.

With s/n 172 (Stout, Walters, STF)

I'm not aware of any mats

With s/n 193, 194 (Sterling T.F. / DCC, STF)

Skyline acquired a good collection of advertising logos, but no matrix fonts

With s/n 259 (Baltotype ... STF)

I'm not aware of any mats

With Henry Ford Museum machine

I know nothing

Paul Aken has a handful of mats which are probably N-R (logos only)

Others?

I am presently unaware of any surviving N-R (not Compositype or Linotype) mats which are not logos or spacing mats.



Ghost Survivor?

- Conflicting reports:

Pat Taylor (Out of Sorts Letter Foundry) had either (or both?)

- an N-R

- a "Bruce" pivotal

- This machine was demonstrated at the first ATF conference (1978)

Referenced as a "Bruce Pivotal Caster" in ATF Newsletter, No. 1 (Aug. 1978)

It would have been sold by him by his downsizing in 1989 (ATF Newsletter, No. 13 (Apr. 1990): 1

- Sky spotted a photo of what was *probably* this machine at an ATF conference

I thought it was in an ATF *Newsletter*, but now I can't find it - frustrating!

- It *may* have gone: Taylor -> Quaker City -> Ben Lieberman -> Theo. Or not.

Where is it now?

- Was it an N-R and s/n 172 (? -> Owen Stout -> GJW -> STF) ?
- Was it the "Puzzle" machine in the next slide?
- Was it scrapped ?
- Is it still out there somewhere ?



A Puzzle

What is it? Where did it come from? What is its relationship to the N-R?



- Shown here at the Dale Guild. Now with PG in Antwerp
- It is <u>not an N-R</u> as shown in any N-R source
- But there's a lot of Nuernberger-Rettig in it



From the website of Jason Dewinetz



A still from a flickr video by TheArm (NYC)

From the flickr photostream of Nick Sherman



Looking Closer at this Pivotal



Shown at the Dale Guild, with Micah Currier

Features like or identical to an N-R:

- Pot and its mounting
- Nipple Plate and curved mounting
- Plunger, Plunger holder, Spring
- Plunger Arm and its linkage
- Choker Arm and (side) Lever
- Camshaft from Handle to Friction Disk
- Friction Disk
- Type Box and its Stand (shown earlier)

Features not like an N-R

- Drive pulley
- Lack of Stop Motion
- Matrix equipment (shown on next slide)
- Mold Blocks and Yoke (slide after that)

Photo courtesy of Patrick Goossens



Its Matrix Equipment



Photo courtesy of Patrick Goossens

But the matrix equipment on this machine is purely traditional pivotal, not the Nuernberger-Rettig coil compression spring mechanism



Its Mold Equipment

Photo courtesy of Patrick Goossens





Left: The Mold Block and Yoke on this pivotal Right: The Mold Block and Yoke on an N-R

They're obviously quite different.



So What Is It ?

- It is not a Nuernberger-Rettig as ever shown in any of their materials
- Without a Stop Motion, it would not meet N-R's market needs
- Patrick's records indicate that this was an ex-Bruce foundry machine (which if true would mean it couldn't be N-R, as the Bruce foundry was purchased by ATF in 1900 and absorbed into the Central Plant by 1906 but the N-R didn't appear until 1907)

- It may (or may not) have been the "Bruce" machine owned by Pat Taylor

So (in order of increasing likelihood):

A. It is a caster cobbled together out of N-R parts

B. The N-R was more closely derived than we realize from some as-yet-undocumented earlier pivotal (of which this is an example)

C. I'm missing something really obvious

(One more topic to go, and then I'd like to come back to this in the Question period.)



Rebuilding an N-R in 2016

At Skyline Type Foundry, January 2016
Approached as a working machine *rebuild* (not a restoration or conservation)
Machine s/n 194 (ex-Sterling)

(Sterling No. 48, black power switch)

- Machine now turns over by hand. Not quite to casting condition (choker, motor, water cooling need work)
- Further rebuilds anticipated

With: Sky Shipley (at right), Mark Knudsen, Troy Groves, DMM











Rebuilding an N-R in 2016



Before: At Sterling T. F. / DCC "Boutique," 2010. All other photos at Skyline T. F. 2016













Rebuilding an N-R in 2016











Write It Down!

Most of the oral history of the Nuernberger-Rettig is sitting in this room today. If we don't save this information, <u>it will be lost</u>. Yes, the next generation *is* interested in this - not everyone, but enough to matter.

If there's something I don't have here, assume that I do not know it.

Write it down and I'll be happy to include it.

Or tell me and I'll be happy to write it down for you.





Qestions?



This presentation is online at:

CircuitousRoot.com/artifice/letters/press/noncomptype/casters/nuernberger-rettig/index.html

Note: This maker's plate, which has no s/n, came from s/n 193 (Sterling No. 36) and is now on s/n 194 (Sterling No. 48) as rebuilt by STF.