Example of patent review

- The next 8 slides illustrate how we could quickly review
- patents & prior art documents for ideas on
- existing methods
- to achieve desired objectives.

Google miniature bulletin printer

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Miniature bulletin printer

US 3201514 A

ABSTRACT available in

IMAGES (5)

Publication number	US3201514 A
Publication type	Grant
Publication date	Aug 17, 1965
Filing date	Oct 19, 1961
Priority date	Oct 19, 1961
Inventors	Bradbury Wilburn F, Kleinschmidt Edward E
Original Assignee	Scm Corp
Export Citation	BiBTeX, EndNote, RefMan

Patent Citations (7), Referenced by (9), Classifications (9)

External Links: USPTO, USPTO Assignment, Espacenet

Step 1: find relevant methods

Evaluate similar technologies for methods which could be used in our design.

DESCRIPTION (OCR text may contain errors)

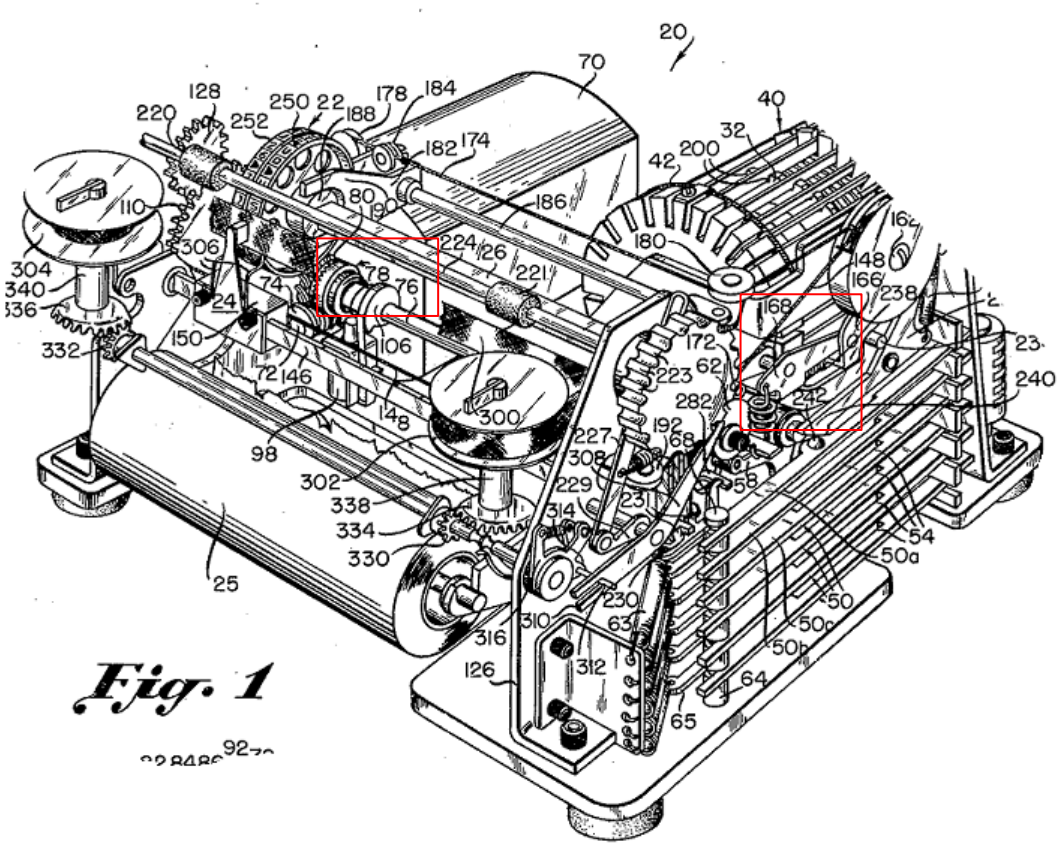
CLAIMS available in

Aug. 17, 1965 E. E. KLEINSCHMIDT ETAL MINIATURE BULLETIN PRINTER
SSheets-Sheet 1 Filed Oct. 19, 1961 INVENTORS Edward E. Kleinschmiclr Wilburn F Bradbury Wy 7W Attorneys Aug. 17, 1965 E. E. KLEINSCHMIDT ETAL 3,201,514

MINIATURE BULLETIN PRINTER 5 Sheets-Sheet 2 Filed Oct. 19, 1961 INVENTORS Edward E. Kleinschmidi Wilburn F Bradbury REVS 5 Sheets-Sheet 3 INVENTORS Edward E. Kle'inschmidt 7L 5 Attorneys Aug. 17, 1965 E. E. KLEINSCHMIDT ETAL MINIATURE BULLETIN PRINTER Filed Oct. 19. 1961 BY Wilburn FBrodbury Aug. 17, 1965 E. E. KLEINSCHMIDT ETAL 0 4 MINIATURE BULLETIN PRINTER Filed 001:. 19. 1961 5 Sheets-Sheet 4 Hull LLL III| INVENTORS Edward E. Kleinschmidt By Wilburn F Bradbury Attorneys United States Patent 3,201,514 MINEATURE BULLETIN PRINTER Edward E. Kleinschmidt, Miami Beach, Fla, and Wilhurn F. Bradbury, Northbroolr, IIL, assignors t0 SCM Corporation, New York, N.Y., a corporation of New York Filed Oct. 19, 1961, Ser. No. 146,105 50 Claims. (Cl. 178-33) The present invention relates to apparatus for receiving and recording coded signals and more particularly to a small compact bulletin printing apparatus exemplified in the following disclosure by what is commonly known to the telegraph industry as a printer. 7

Apparatus for receiving coded signals and automatically transforming them into recorded typographical characters for immediate reading .are well known in the art and usually consist of components such as a typewheel, print hammer and mechanism to select .a specific character .and to cause relative movement between the typewheel and print hammer, a reversible inked ribbon mechanism and a carrier and feed for the paper on which the message is printed.

In previously known equipment of this type, most of the above mentioned components are located on the front side of the



Freely rotatably mounted on the camshaft 76, as the input member of clutch 78,

A second **clutch** 168 of-the **slip coupling type** (see FIGURE 4) consisting of a large gear rotatably mounted on camshaft 76 and frictionally driven by rotation of camshaft 76 through the medium of **two oiled felt disks** 112 and 114 pressed together by compression spring 120. The slip clutch 108 is a necessary component due to the fact that camshaft 76 must be in motion even though the print wheel 22 and its associated selecting mechanism are stopped at the selected printing position.

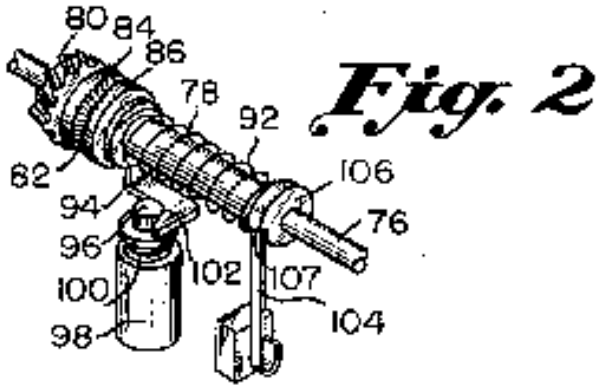


Fig. 2

FIGURE 2 is a detail perspective View of the positive cyclic clutch mechanism which can be seen below the typewheel in FIGURE 1 and which controls the camshaft cycles of rotation, the length being exaggerated for purposes of clarity.

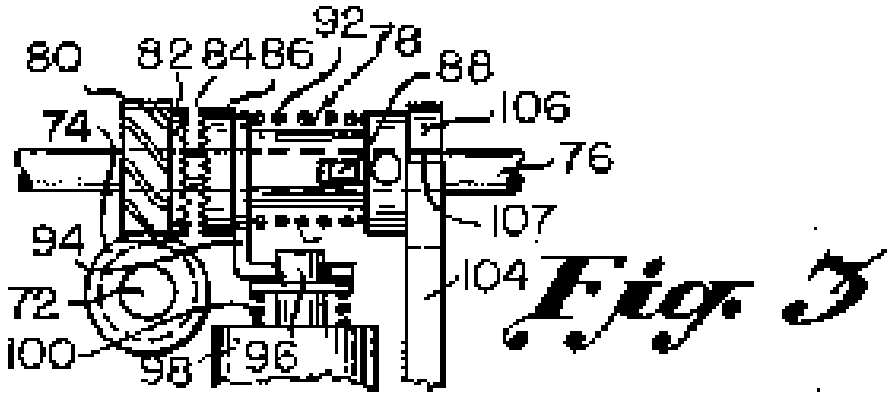
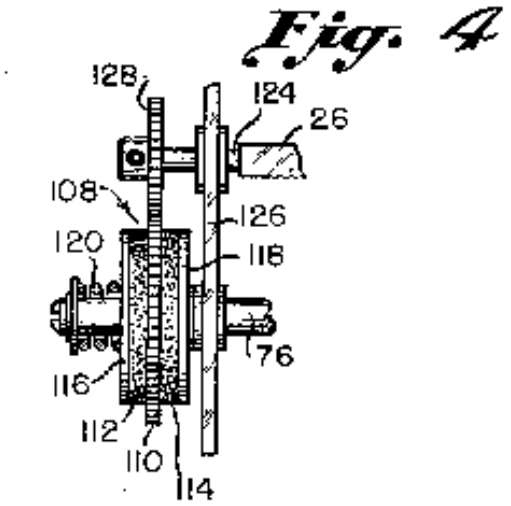


Fig. 3

FIGURE 3 is a further detail view of the positive clutch mechanism shown in FIGURE 2 and illustrates the manner in which the sliding clutch member is keyed to the camshaft;

The slidable member 86 (see FIGURE 3) is disposed on and keyed to the camshaft 76 by a cross key 88 whose ends fit in a slot 90 cut across the end of the slidable member 86.



Two oiled felt disks 112 and 114 and two Washers 116 and 118, the combination being pressed together with the felt disks bearing against the gear 110 by the force of a compression spring 120.

operating column 13, line 52, for "came" read cams column 15, line 7, for "end" read and column 25, line 8, for "responsibe" read responsive column 26, line 18, for "pulrality" read plurality Signed and sealed this 12th day of April 1966.

SEAL) .ttest:

Step 2: Scroll to bottom to view other similar patents

RNEST W. SWIDER EDWARD J. BRENNER ttesting Officer Commissioner of Patents

PATENT CITATIONS

Cited Patent	Filing date	Publication date	Applicant	Title
US1201809 *	Oct 14, 1913	Oct 17, 1916	Western Electric Co	Printing-telegraph receiver.
US2134722 *	Jul 31, 1935	Nov 1, 1938	Western Union Telegraph Co	Telegraph printer
US2247408 *	Mar 3, 1938	Jul 1, 1941	Teletype Corp	Printing telegraph apparatus
US2754361 *	Oct 16, 1950	Jul 10, 1956	Kleinschmidt Lab Inc	Selector mechanism
US2773931 *	Aug 15, 1951	Dec 11, 1956	Kleinschmidt Edward E	Printing telegraph apparatus
US2774816 *	Apr 27, 1953	Dec 18, 1956	Kleinschmidt Lab Inc	Printing telegraph receiver
US2942065 *	Dec 13, 1957	Jun 21, 1960	Teleprinter Corp	Telegraph printer

* Cited by examiner

REFERENCED BY

Citing Patent	Filing date	Publication date	Applicant	Title
US3291041 *	Jul 2, 1965	Dec 13, 1966	Soroban Engineering Inc	Page printer mechanism with tilting and travelling print head
US3308917 *	Feb 19, 1965	Mar 14, 1967	Siemens Ag	Type carrier positioning means employing two motors
US3310147 *	Jul 12, 1965	Mar 21, 1967	Clary Corp	Wheel striking data printer
US3326346 *	Oct 20, 1965	Jun 20, 1967	Rentaro Sasaki	Type drum printer with hammer mounted inside of and coaxial with drum
US3356198 *	May 19, 1966	Dec 5, 1967	Olivetti & Co Spa	Serial printing device having plural type heads mounted on movable carriage
US3399753 *	Jan 10, 1966	Sep 3, 1968	John E Carr	Printer with type wheel rotatable in either direction
US3417690 *	May 2, 1966	Dec 24, 1968	Scm Corp	Rolling contact printer hammer and hammer carriage
US3456078 *	Sep 20, 1965	Jul 15, 1969	Teletype Corp	Retraction type carrier mechanism
US3963109 *	Jun 9, 1975	Jun 15, 1976	Royal Business Machines, Inc.	Single element typehead positioning mechanism

* Cited by examiner

CLASSIFICATIONS

U.S. Classification	178/33.00R, 101/93.36, 178/29, 178/24, 101/93.15
International Classification	H04L17/00, H04L17/24
Cooperative Classification	H04L17/24
European Classification	H04L17/24

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Step 3: find prior art

Miniature bulletin printer

US 3201514 A

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[Telegraph **printer**](#)

www.google.com/patents/US2134722

Cited by US3201514

Grant - Filed Jul 31, 1935 - Issued Nov 1, 1938 - Long James W - Western Union Telegraph Co

TELEGRAPH **PRINTER** Filed July 51, 1935 I3 Sheets-Sheet 2 INVENTORS J.W LONG ..... Oct 19, 1961, Aug 17, 1965, Scm Corp, **Miniature bulletin printer** ...

[**Printing**-telegraph receiver.](#)

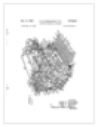
www.google.com/patents/US1201809

Cited by US3201514

Grant - Filed Oct 14, 1913 - Issued Oct 17, 1916 - Amos F Dixon - Western Electric Co

This invention relates to **printing** telegraphs, and more particularly to **printing** telegraph ..... Oct 19, 1961, Aug 17, 1965, Scm Corp, **Miniature bulletin printer** ...

[**Printing** telegraph apparatus](#)



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Grant - Filed Aug 15, 1951 - Issued Dec 11, 1956 - Anderson Carl P - Kleinschmidt Edward E

PRINTING TELEGRAPH APPARATUS I5 Sheets-Sheet 8 Filed Aug. 15, 1951 INVENTORS ..... Oct 19, 1961, Aug 17, 1965, Scm Corp, **Miniature bulletin printer**.

[**Printing** telegraph receiver](#)

www.google.com/patents/US2774816

Cited by US3201514

Grant - Filed Apr 27, 1953 - Issued Dec 18, 1956 - Yost Kermit D - Kleinschmidt Lab Inc

A narrow **printing** hammer, over which an inking ribbon passes, is mounted in front of the ..... Oct 19, 1961, Aug 17, 1965, Scm Corp, **Miniature bulletin printer**.

[Telegraph **printer**](#)

www.google.com/patents/US2942065

Cited by US3201514

Grant - Filed Dec 13, 1957 - Issued Jun 21, 1960 - Bernard Howard - Teleprinter Corp

The telegraph **printer** of my aforesaid Patent 2,769,029 has a type cylinder which is .... In practice, the cables 40 and 42 are **miniature** roller chains, and the pulleys 44, 46, ... Oct 19, 1961, Aug 17, 1965, Scm Corp, **Miniature bulletin printer**

Patent US3201514

Miniature bulletin printer

Show Claims

Inventors: Bradbury Wilburn F, Kleinschmidt Edward E

Assignees: Scm Corp

Patent number: US3201514

Filing date: Oct 19, 1961

Issue date: Aug 17, 1965

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