Frank L. Capps World-Wide Known Inventor

PIONEER IN RECORDING MACHINE FORMER MOUNT PULASKIAN ATTAINS FAME terested, though," he said. Nevertheless, he took it out to Edi-AND PHONOGRAPH INDUSTRY

Associated With Thomas A. Edison; Sent To Europe

Now that Mount Pulaski is celebrating the 125th year of its founding (in 1836) by Jabez Capps and others coming from Springfield, this year of 1961, it story of individuals who had tained fame.

In this case it is the story of the life of Frank Lushbaugh Capps, as written by his daughter, Mrs. Isabel Capps Rainey, in New York City in 1941. The writer did not mention his boyhood here before going into the story.

Born In Illiopolis Frank Lushbaugh Capps was born July 28, 1869, in Illiopolis, Ill., a son of Charles R. and Eliz-abeth Lushbaugh Capps. The family moved to Mount Pulaski in 1872 and his first schooling was in the old Logan county court house building in the public square, now an Abraham Lincoln Memorial Shrine, owned and maintained by the State of Illinois. The family remained here until 1882, living on South Washington St., in the place known for many years as the Phinney property. They moved to Springfield where Frank attended high school, before beginning an active life in New York City and area, where he became widely known as the information following about him will tell. Ashes Buried Here

He died in New York City, N. Y. on June 2, 1943, and his body was cremated in Brooklyn. The ashes were there until in October when they were received at the Schahl funeral home in Mount Pulaski on the 18th, the same day that his cousin, Donald Cameron Beidler, 58, died suddenly in Man-

hassett, Long Island, across the the Sound from New York City. While on a visit to Mount Pul-aski with Mr. Beidler, the two men indicated they wanted to be buried in Mount Pulaski cemetery side by side in the old Beidler lot. Little did they think they would be buried the same day. The remains of Mr. Beidler arrived on Friday, and funeral services were held in the Schahl funeral home Sunday, Oct. 24, conducted by the Rev. Frank E. Neumeyer, pastor of the Methodist church. Following the commitment at the grave, a memorial service for Frank L. Capps was given by Rev. J. Wayne Staley, then pastor of the Mount Pul-aski Christian church, who paid him a glowing tribute for his fine character and useful career as an inventor. Thus were the wishes of two men carried out. Now for the story written by

Mr. Capps' daughter.

Capps, inv former Mount Pulaskian whose inventive genius brought him national recognition and fame. His ashes are entombed in the Mount Pulaski Cemetery.

Mr. Capps was the son of John Capps, whose brother, Jabez Capps, founded Mount Pulaski. His mother, as a little girl, often sat upon the knee of Abraham Lincoln. In 1941 a radio broadcast was dedicated to Mr. Capps' marvelous career and as the in-

ventor of the phonograph needle. The following life story was written by his daughter, Isabel Capps Rainey, in 1941:

For more than 40 years Frank Capps has contributed enormously to the field of sound and sound recording. His earlier inventions were major factors in the perfection of the phonograph, while his most recent one, a patented needle for instantaneous recordings has been a of a new and growing industry. removed to a more spacious place in its infancy at that time. It

He is recognized today as an outstanding expert in the recording field, is labelled a genius by those who know him and yet he has never been given wide publicity. He never wanted it for that matter.

In the past few years, however, many people have wanted an article written about him. The is an appropriate time to tell the demand comes not so much because of the specific things he gone out into the world and at- has done as because of the outstanding personality that he is. This article is written in response to that demand, and I have chosen the title, "Frank L. Capps and His Lathe," because they had been so closely associated thruer did not mention his boyhood days, so this information is given fact his lathe is as much a part of him as his powerful eyes and skilled hands.

He was 19 when his father gave him the lathe. His father was a fairly prosperous business man in Springfield, Ill., who knew that he would never succeed in making a storekeeper or real estate broker like himself, out of his son Frank.

Workshop Chief Interest

Frank, from his boyhood, had had just one consuming interest, his workshop. He would come home from school, do his chores, and immediately disappear into his bedroom. There he had tools and books, electricity, sound transmission and so on. So absorbed would he be "monkeying around", as he put it, that he would have to be called a dozen times to his supper and scolded later at night into blowing out his lamp and getting to sleep.

His bedroom was his first workshop, and only twice in all years since has he been without a well-equipped shop in his own home, the two times when setting up in business for himself, he transferrred his precious lathe to the business prem-

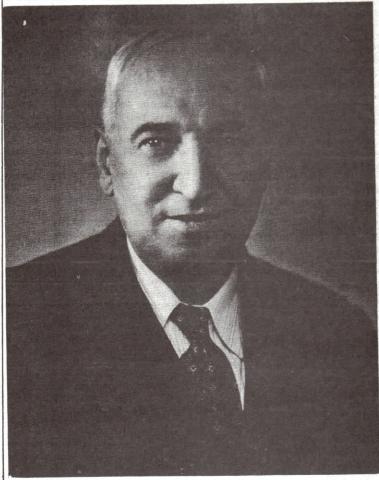
Frank was a quiet boy, rangy in build, shy in manner, and always devoted to his family. He was particularly proud of his mother, a remarkably energetic and intelligent woman whose lifelong hobby was collecting Lincolniana.

Her mother had been Lincoln's nearest neighbor in Springfield in her own childhood. She delighted in telling Frank, together with his two brothers and sisters, how she used to go over to Abraham Lincoln's house and climb up on the great man's knee; and how Lincoln would come across the street to her home to borrow coals to start his

remarkable vitality and energy the magnetic principle now used Even today he can outwork the for picking up sound, the first vacations and for years has spent Frank L. Capps is another almost every night until the small hours of the morning, working in his laboratory at his home or in the shop. He also in the whole field of sound, or herited his vigorous independ- found himself absorbed in it aftence and splendid eyesight from er his experience as troubleher. In spite of the fact that he man, I do not know. Musical talhas been doing precision work ent was pronounced in his famfor so many years, fashioning ily, and while his sister Mabel, delicate little mechanisms too small for the naked eye to see, he seldom needs glasses today. ed concert pianist, he seems to His capacity for taking infinite have resolved at this time to depains with his work, his patience, his easy-going, tolerant to the instrument of sound, the good nature, and droll sense of phonograph. True there was a humor he acquired from father.

> Frank's working career began at 17. He got a job then in the joyed making horrible noises on superintendent's office in watch factory in Springfield, Ill. the idea of making music him-At 19 he was making the tools self for the broader one of perused by the watch-makers in the fecting the instrument through factory.

After work at night he would eat his dinnner and disappear, foundation stone in the building as usual, into his workshop now



FRANK CAPPS, noted inventor in the field of recording in the early days, and inventor of the power spring and sapphire needle for fine recordings, was a well-known pioneer in the industry.

in the cellar. His mind was be- was the day of wax cylinders, of ginning to produce original ideas enormous tin horns and of the and he probably talked a great deal to his father about them. At any rate, that was when the lathe was bought. In all his life, he says, he never received a have been more lastingly useful.

He was 19 when the Bell passed a ruling that the Trouble
Man must go out and climb the
poles whenever anything went
wrong on the line.

Weather Bad: Quit Job

Well below the possion office ward and expensive process and made copies a simple matter.

Characteristically he did not attempt to make a fortune or seek publicity with his invention, although he undoubtedly

"I didn't mind climbing poles," he says, "but I didn't always like

the weather. So I quit." Invented Magnetic Principle

Two weeks later they called him back and asked him to go to Chicago and work in the Bell Research Department there. Their recalling him is not surprising because, young and relatively inexperienced as he was, it was while performing his daytime duties as trouble man that at From her Frank inherited his night he invented and patented

youngest of his employees; a remarkable feat when one considiathe turned out. The magnetic ers that he has always scorned principle is still used, of course in magnetic pickups.

vote his talent and love of music his flute lying about in his workshop in those days. He admits, with a wry grin, that he sometimes enit. But he evidently abandoned which great music and great artists might be preserved.

Developed Phonograph The phonograph industry was son.

expensive business of having to recall the artist to make an original recording whenever a second or third copy was desired. Capps, still working in the Bell

present that thrilled him so research laboratories, put his much. Certainly no gift could mind to work on this problem. Again he and his lathe went to work. The result was a dupli-Company offered him a job as cating machine that effectively rough until the Boston office ward and expensive process and passed a ruling that the Trouble made expensive process and

could have.

"Didn't you patent it?" I asked him. "Oh yes," he replied, cas-ually, almost disinterestedly.

"But — didn't you make any money out of it?" I persisted.

"Well," said he, "the United States Phonograph Company in Newark offered me double the salary I was making with the telephone company if I would build duplicating machines for them. If you double your salary every once in a while you are doing all right, aren't you?"

After he had built the duplicating machine for Mr. Tewkesbury and his United States Phonograph Co., Capps decided to go into business for himself. He op-Whether Capps was led into ened a shop in Newark, busying his work with the telephone himself making phonograph parts, sapphire needles for wax recording, shaving knives and so on. His lathe, of course, went with him into his new shop and took part in the next invention.

Phonograph machines were at that time driven by storage batteries. Storage batteries, of course are fine when charged, but they do have an annoying habit of So Mr. Capps conceived and built took it around to Mr. Tewkesbury for a demonstration. Mr. Tewkesbury was delighted. The United States Phonograph Co., I negtalking machine and record sales in addition to making record-Capps' spring motor, Mr. Tewkesbury, therefore, naturally wanted to show the motor to Edi-

"I doubt if Edison will be in-

son's plant.

He said, "Mr. Edison, here is a new kind of motor that I want you to let me show you. It is driven by a spring and eliminates the need of storage batteries."

Mr. Edison replied that there was only one way to run a motor, by electricity; but agreed to look at it. "First, though," he said, "listen to a really good recording," and, turning to an assistant, he asked him to demonstrate a machine. The assistant went off only to come back and report that there was not a single charged battery in the place at that moment. This was Mr.

Tewkesbury's opportunity.
"That's just what we're up against, Mr. Edison," he exclaimed. "People are constantly com-plaining because their machines fail when the batteries suddenly go dead. This motor does away

with that."

Motor Solves Problem

So the Capps spring motor was demonstrated and Mr. Edison was immediately pleased. He got in touch with Capps at once and had him moved out to the Edison plant where for several months he supervised the building of his spring motors for Mr. Edison's talking machines.

However, he made no attempt to reap large sums from it and was pleased when The Columbia Phonograph company of Bridgeport, Conn., immediately called him there to generate the build him there to supervise the building of machines for them.

The years 1901 and 1902 were

spent perfecting the molds for the newly invented method of molding cylinder recording ma-the designing of recording machines and apparatus for disc records which were just being perfected. This was for The Columbia company.

Spent Year Abroad In 1903 Columbia asked him to spend a year abroad making re-cordings for their European catalogue. With his wife, a charming and intelligent woman, and their two small children, he set out on this assignment with great excitement. It was a rich ex-perience for it took him into every country in Europe and brought him into close contact with artists and technical men everywhere. He learned to speak a half dozen languages sufficiently well to make himself un-derstood, and he and wife made friends wherever they went. They both possessed great personal magnetism, both were entirely free from artificialty and were so genuinely friendly, so interested in everyone and everything that they were extended an intimate hospitality denied the travelled.

One such experience proved more of an ordeal than a pleasure, however. He is reminded of it whenever anyone ask him to sample a special dish.

He will say, "It isn't raw fish, is it?" and then tell his story. "Some people in Vienna want-

ed to give me a farewell dinner because I was leaving Vienna for Russia on the following day. Ordinarily the Viennese do not ask you to their home for dinner. When they have a guest they take him to a restaurant where cooking is on a par with home cooking anyway. Being invited into a home is a very special honor. Well, these people did giving out at the wrong moment. invite me. They said they had a very special treat for me; wona motor driven by a spring and derful dish; a great delicacy. raved about it. You can imagine how I felt when the delicacy was set before me and turned out to be raw fish, seasoned of course, lected to say, had the exclusive but raw fish just the same. Somehandling of all Thomas Edison's how I managed to eat it all because I did not want to hurt their feelings. As I ate they never took ings of their own. On seeing their eyes off my face, watching for the delighted expression they expected to see. When I managed to eat it all without betray-

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