David's receiver

hoped to be in Menlo Park on 3 August. In that note he said, “Am very anxious to see what you have done— We have been getting very fair results with Bell's, and if we could get nothing better it would do— I understand its defects pretty well.” DF (TAEM 14:835, 845).

David first arrived at the laboratory on 4 August. On 9 August, he participated in more tests. Batchelor noted that “He thought it better to abandon the paper and consequently we receive it on a magnet thus [see left]. I promised Edison I would make him a full set tomorrow to test and Kreusi & I started at 7 p.m. & worked all night.” The next day Batchelor wrote that he had “Worked up till noon finishing 2 sets of speaker telephones and Edison & I went to New York, met David and we got a line. Edison & David stopped at 197 Bdway and I went to Clearing House and we made some good talking. It was some time before we had them all right.” Cat. 1233:216, 221–22, Batchelor (TAEM 90:161, 163–64).

2. Western Union’s main office in New York.
3. The Bank Clearing House was at 14 Pine St., about 1,000 feet (300 meters) from 197 Broadway. Wilson 1877, 14 (City Register).

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**Technical Note:**
*Phonograph and Telephony*

[Menlo Park,] Aug 12 1877

Phonograph

any power to rotate
Imp[ro]v[emen]t in Bells Telephone carry put extension on end of poles & lay clear across diapham.
also

[----ing?] short ckt permanent magnet = use iron filing in cup between diaphragm & poles allowing speaking tube be perpendicular—

T A Edison

On the occasion of the fortieth anniversary of the phonograph's invention, Edison signed and (mis)dated this later sketch.

1. Another phonograph sketch incorrectly bearing this date has been widely publicized and reprinted as the first sketch of the phonograph (NS-77-003, Lab. [TAEM 7:448]). For the history of that sketch see Koenigsberg 1969, xiii, and Pershey 1989, 110.

2. Figure labels are “spk,” “listen,” and “Roll paper.”

Spkg Telegraph

[Menlo Park,] Aug 12 1877

iron tube wound with wire—

Continuous magnet having its core formed of disks of iron vibrations cause these to give a noise=

no need of armature.

I will mention here that the conducting fibre can be dispensed with in my telephone & its equivalent substituted ie a the clean fibre may have a semiconducting substance included in its folds b & that will work=

Even loose plumbago or equivalent will work this