

Pictures Flashed Round The World By Spot Of Light

Instrument Similar To Old-Fashioned Phonograph With Cylinder Records.

Many people must have wondered, when looking at those rather blurred photographs in the newspapers, just how such pictures are telegraphed across vast oceans from one country to another.

At the Central Telegraph Office, London, some very fascinating gadgets are used for this purpose. Not only can photographs be despatched and received, but films, drawings, plans and all sorts of printed, written, typed and shorthand material as well.

The visible part of the instrument that does this marvellous work is very like the old-fashioned phonograph, which had cylinder records instead of discs. As the old phonograph cylinder rotated, the needle travelled slowly along a horizontal path, instead of round and round a disc as on the gramophone.

In the picture telegraph machine, a spot of light takes the place of the needle, the "record" being a picture bent into a cylinder, and the result of the contact of these two is an electric current, which fluctuates according to the varying tones of the picture being transmitted.

The receiving instrument is built in much the same way. It reverses the process by translating the electric current into a spot of light, and this in turn into an impression on a photographic film. The drum round which this is curled rotates at exactly the same speed as the drum that is transmitting the picture. The connection between the two is an electric current operating a spot of light.

HIGHWAY BULLETIN

Fredericton, N.B.—The highways of the province are now all open for traffic, and in good condition for the motoring public. There are no construction projects now under way which will seriously interfere with traffic, but caution should be observed on sections where construction and preparatory work is under way in connection with the hard surfacing program. Construction of pavement on all these sections will commence between the 4th and 17th of June.

Route No. 1—St. Stephen to Saint John. Condition good. Mile 10.5-17.6 and mile 73.0-78.5 sub draining, ditching, etc., in connection with hard surfacing on projects mile 1.4-19.2, and mile 75.0-85.1.

Route No. 2—Quebec Boundary to St. Leonard. Fair condition. St. Leonard to Woodstock. Good condition. Preparatory work for hard surfacing under way; Aroostook-Perth (mile 67.4-74.3), Bath-Florenceville (mile 92.5-101.5) and Hartland-Perth (mile 101.9-121.6). Woodstock to Saint John. Good condition. Long Creek-McKinley Ferry (mile 168.5-177.2) preparatory work. McKinley Ferry-Fred-

erickton (mile 177.2-184.8) and Westfield-Manchester Corner (mile 264.3-276.4) completion of last year's pavement work to be carried on. Fredericton-Oromocto (mile 191.1-198.0) preparatory work. Saint John to Moncton. Condition good. Rothesay East (mile 290.01-301.0), preparatory work for pavement. Sussex-Penobsquis (mile 327.0-335.1) pavement work to be carried on. Salisbury-Jones Siding (mile 359.0-369.0) preparatory work. Moncton East and West (mile 368.7-373.7 and 375.4-380.4) preparatory work for the year's paving program. Moncton to Nova Scotia Boundary. Halls Creek Bridge just east of Moncton is under construction. No detour. Dover Road-College Bridge (mile 380.4-390.1) and Sackville East and West (mile 400.9-404.4, and 406.3-411.3) preparatory work for this year's pavement program.

Route No. 2A—Oromocto-Westfield. Condition good.

Route No. 2B—Hartland-Woodstock via Waterville. Condition good.

Route No. 3—St. Stephen-Fredericton via Longs Creek. Good condition.

Route No. 4—Thomaston Corner-Vanceboro. Condition fair, mile 0.0-4.0 being repaired.

Route No. 5—Woodstock-Houlto. Good.

Route No. 6—Florenceville-Bridgewater. Fair condition.

Route No. 7—Andover-Fort Fairfield. Good condition. Graveling in progress, mile 0.4-1.0.

Route No. 8—Fredericton-Newcastle. Fair condition. Evidence of frost damage mile 82.5 and 98.0. Under construction first week of June, mile 44.0, mile 64.0, mile 81.0, mile 95.0, mile 97.0-101, and mile 106.0.

Route No. 9—Fredericton-Sussex via Jemseg. Condition fair. General repair work under way on Mauderville and Jemseg flats.

Route No. 10—Sheffield-Stark-eyes via Chipman. Condition fair.

Route No. 11—Matapedia-Moncton. Condition fair. Flatlands-Campbellton (mile 2.0-12.0) road being gravelled and ditched. Campbellton-Dalhousie (mile 13.9-26.5) preparatory work for this year's pavement program. Under construction first week in June, mile 88.0, 89.0, mile 92.0, mile 116.0-118.0, mile 120.0, mile 126.0-127.0, mile 188.0-190.0, mile 192.0, mile 197.0-199.0, mile 210.0, and Black River Bridge mile 203.0.

Route No. 12—Chatham-Newcastle. Pavement, good condition. 0.25 mile at end of Morrissey Bridge under construction.

Route No. 13—Pokemouche-Shippagan. Fair condition. Mile 4.0 and 10.0 under construction first week of June.

Route No. 14—Moncton-Alma. Condition good. Alma-Penobsquis. fair.

Route No. 15—Shediac-Port Elgin. Good condition.

Route No. 16—Aulac-Cape Tormentine. Road good except mile 9.0-15.0, which is still rough on account of frost action.

Route No. 17—Campbellton-St. Leonard. Good condition.

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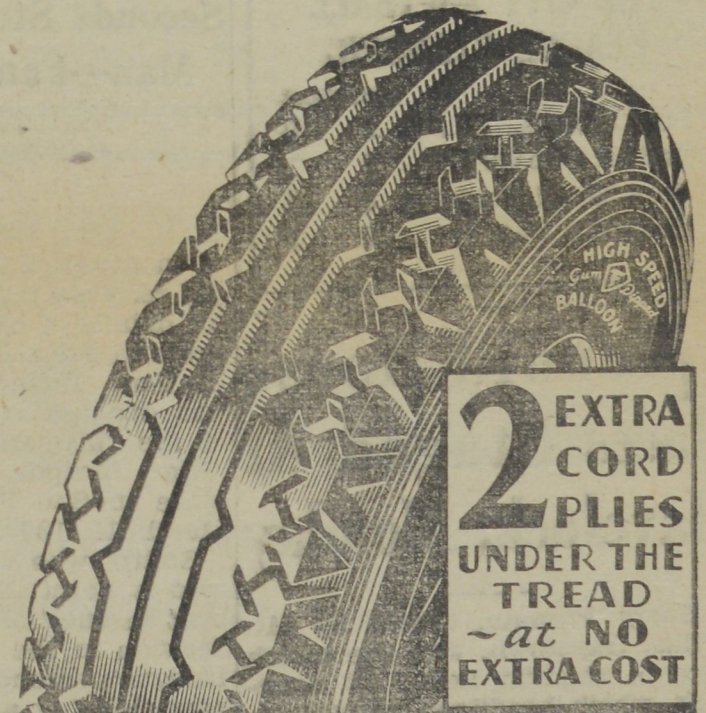
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