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with a block of soft pine. This shop, we are told, is de-voted to the manufastare of the heavier parts of such mechinery as may be necessary in forwing new models of electric motors and so forth. There are machines here, and workmen who can handle them, capable of turning out a monster locomotive or an eighty-ton gun. We elamber up a steep staircase, and find ourselves in another room as large as the one we have just left, and, like that, filled with the busy hum of revolving wheels overhead and clanking machinery below, only in this case everything is of a daintier, lighter make and appearance. This is the shop where instruments of precision and all the more deli-cate portiens of the uncehanical work are turned out. More wonderful in many ways are these mechanical aids to human power, for these iron and bravs levers and cog wheels seem capable of doing all that man can do, and more. In this shop can be made the most delicate instruments possible,— machines so thny that they would not outbalance a nickel placed in the opposing scale; while below, so our Virgil itells or, motors weighing many tons can be just as easily nervous organisation, filing and polishing the almost impor-ceptible needles, which, when inserted in their proper place in the phonograph, will 'keep track' even of a woman's tongue; and others are putting toget the nicely propor-tioned and delicate brass work which goes to make the rest of the 'talk record'. Other again, are finishing off to an exquisite smoothmest the surfaces of the wax triuners to soring the queerly odoriferous melted wax from a ladle into brass moulds. The moulds look not unlike a row of greasy rockets, but are of highly ingenious construction, specially adapted for their peculiar task. We are soon poking our heads into large, light, and airy errows where spectacled men in their shirt-sleeves are drauging, from the roogn sketches of M redison, carefully plotted plans and elevations of inventions of greater or less impertance, white others are pursuing scientific investig

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SIR G. GREY. MAYOR OF AUCKLAND. MR ARCHIBALD. SIR GEORGE GREY AND THE PHONOGRAPH.

SIR G. GREY. LIVE SIR GEORGE GREY AND THE PHONOGRAPH. SIR GEORGE GREY AND THE PHONOGRAPH. Tions with all the careful laboriousness and patience of en-thusiasts. Here, surrounded by cabinets of minerals, saucers of acids, scales able to detect the variation in weight of a single hair, and clever magnetic con-trivances, are a couple of investigators prying into the afficities of varions ores, having in view the perfection of the novel ore separator which will be Edison's next gift to the novel ore separator which will be Edison's next gift to afficities of varions ores, having in view the perfection of the novel ore separator which will be Edison's next gift to periments is electro-metallury are being conducted, and in great jars of evil-smelling liquid, phonograph cylinders, covered with the microscopie dots and dashes which are the wisible amorial of sound, are receiving deposits of various metals. The outcome of all this tentative work will be the still firther perfecting of the already patented scheme for limitless reduplication of phonographic records. Then we are shown a larger apartment, wherein are ar-anged in frames thousands of the glass globes in which, when exhausted of all air, incandescont filaments will be exhausting process under the careful gaze of sundry other assistants; and, numerous as they are they will be chiefly used for experimental purposes, thuse for the use of the public being prepared elsewhere. A long, low room is de-voted to testing the average 'lives' of these experimental lamps, and presents a curions appearance, with its hundreds of uriliant lights covering the cating in closely parallel lines, —a firmament of tangible stars. We are told larer, that the ideal larup, for the realization of which all these in-vestigators are constantly striving, will burn for an indefi-nite period, and, axee when it meets will han accident, will teresting the subtile scientific headquarters is the photogra-nist, who, like every one else about the place, is refresh-ingly enllusiastic about h

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SIR GEORGE GREY AND THE PHONOGRAPH.

SIR GEORGE GREY AND THE PRONOGRAPH. Recently, when Professor Archibald had concluded his exhibition of the phonograph in Auckland and was on the point of the phonograph in Auckland and was on the point of departing, it was suggested by Mr Mitchell to Mr Upton, the Mayor, that the opportunity should be taken of preserving for future generations a record of the utterances of Sir George Grey. Mr Upton therempon addressed a letter to Sir George Grey, expressing to him the idea. Of this the latter thought fit to approve, and a day was accordingly appointed on which Sir George Grey Professor Archibald, and Mr Upton met together at the studio of Mr Hanna, in Queen-street, and enacted a cere

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