

pump used in the wells of Istanbul, and adapted a heavy scale for the use of customs officials in the weighing of heavy loads in the harbor. Other members and relatives of the family were employed in the various factories and plants under Dadians' management. In 1843 Arakel-Sisag dispatched one of his assistants at the Azadli mill to Baghdad to set up a powder mill there. The Dadians employed many Armenians. The village of Makrikeui, now Bakirköy, was inhabited by immigrant Armenians from various provinces, who worked in the nearby powder factory at Ay Stefano.<sup>83</sup> Some of these were skilled laborers; Sivri Khatchadur Kehya and Usda Ghugas of Palu were both experts in mechanics and powder making.<sup>84</sup> According to an eyewitness account, some five hundred Armenian workers were also employed at the musket works at Fanal, called *Tophane*.<sup>85</sup>

Many of the factories and plants the Dadians managed were built by Garabed *Amira* Balian, Chief Imperial Architect, in cooperation with Hovhannes *Amira* Serverian, another Imperial Architect and a son-in-law of Garabed *Amira*. To cite a few instances, the tannery near Beykoz was constructed by Balian *Amira* in 1842;<sup>86</sup> so was the *cuha* mill in Izmit, built in 1844. Balian *Amira* reportedly used modern techniques, for "the building [of the *cuha* mill] which incorporated significant advances in European construction techniques."<sup>87</sup>

In general, the Dadians kept a monopolistic privilege and control over the industrial field, the Balian and Serverians being involved only in the construction of factories. The only exception to this control was Hagop *Celebi* Diuzian who, in 1844, installed steam-powered stamping machines in the mint, and built a paper mill in Izmir. It is not known why he did not continue his activities in this area of development. Were the Dadians able to eliminate their potential rival through the intervention of the Sultan or the government? Did Hagop Diuzian lose interest in industrial ventures? The two families had a long-standing rivalry; whether this rivalry played any role in cutting short Hagop Diuzian's new career in industry remains to be

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<sup>83</sup> **Torkomian**, *Eremia Tchelepii*, 1:400.

<sup>84</sup> **Boghosian**, *Dadian Gerdastane*, p. 47.

<sup>85</sup> **Walsh**, *Residence*, 2:432.

<sup>86</sup> **Boghosian**, *Dadian Gerdastane*, p. 65.

<sup>87</sup> **Clark**, *Industrial Revolution*, p. 68.