

brown or black cinder-like slags and irregular ragged cakes, bristling with jagged points ("aa" <sup>66</sup>), which, in their onward motion, grind and grate against each other with a harsh metallic sound, sometimes rising into rugged mounds or becoming seamed with rents and gashes, at the bottom of which the red-hot glowing lava may be seen (Fig. 46). In lavas possessing somewhat greater fluidity, the surface presents froth-like, curving lines, as in the scum of a slowly

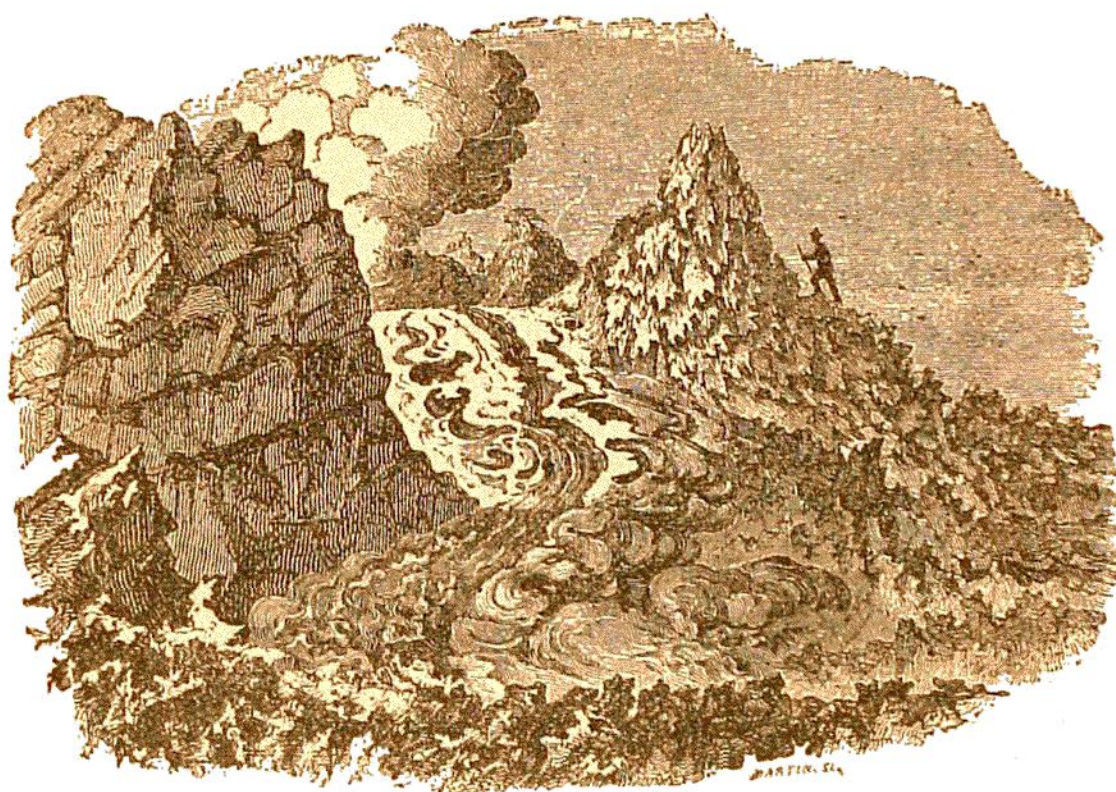


Fig. 46.—View of portion of a Lava-stream on Vesuvius (Abich).

flowing river, or is arranged in curious ropy folds, as the layers have successively flowed over each other and congealed ("pahoehoe" <sup>66</sup>). These, and many other fantastic coiled shapes were exhibited by the Vesuvian lava of 1858, and are admirably displayed by the peculiarly liquid glassy lavas of Kilauea. <sup>66</sup> Basalts possessing extreme liquidity

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<sup>66</sup> For descriptions of Vesuvian lava-streams, see the various memoirs and works cited, ante, p. 333. For those of Etna, Sartorius von Waltershausen and A. von Lasaulx, "Der Aetna," ii. p. 390. The rugged scoriaceous lava-surfaces are known in Hawaii as aa, the smooth coiled and ropy surfaces are there called