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(71) Applicant: **RIDDLE & CODE GMBH** [AT/AT]; c/o Spaces Icon Central Station, Gertrude-Fröhlich-Sandner-Straße 2-4/ Tower 9, 1100 Wien (AT).

(72) Inventor: **FÜRSTNER, Thomas**; FL01 Santa Maria, 17, Ward Street, II-Madliena, Malta, SWQ-1102 (MT).

(74) Agent: **SONN PATENTANWÄLTE OG**; Riemergasse 14, 1010 Wien (AT).

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(54) Title: SYSTEM AND GATEWAY FOR ATTESTING A DATA RECORD

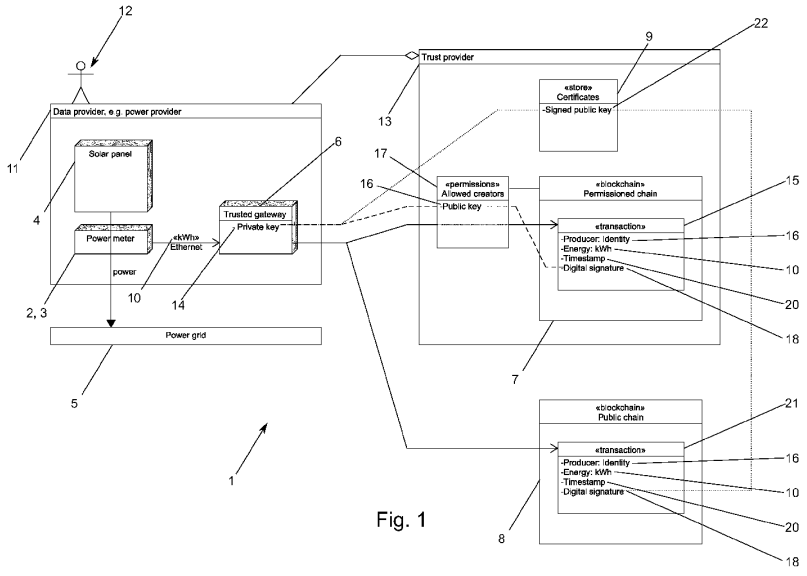


Fig. 1

(57) Abstract: A system (1) for locally attesting a data record at a data source (2), the system (1) comprising: - a trusted gateway (6) locally connected to the data source (2) and configured for receiving at least one data point (10) from the data source (2); - at least one blockchain database (7, 8) configured for receiving and storing data records digitally signed with a cryptographic key; and - a certificate store (9), wherein the trusted gateway (6) comprises a secure element storing at least one private cryptographic key (14), wherein the certificate store (9) contains a digital certificate (22) comprising a public cryptographic key (16) corresponding to the at least one private cryptographic key (14) digitally signed by a trusted certificate authority, wherein the trusted gateway (6) is configured to create a data record containing at least one data point (10) received from the data source (2), a timestamp (20), an identity (16) associated with the at least one private cryptographic key (14) and at least one digital signature (18) generated by the secure element with the at least one

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private cryptographic key (14), and to transmit the created data record to the at least one blockchain database (7, 8).