A P P E N D I X

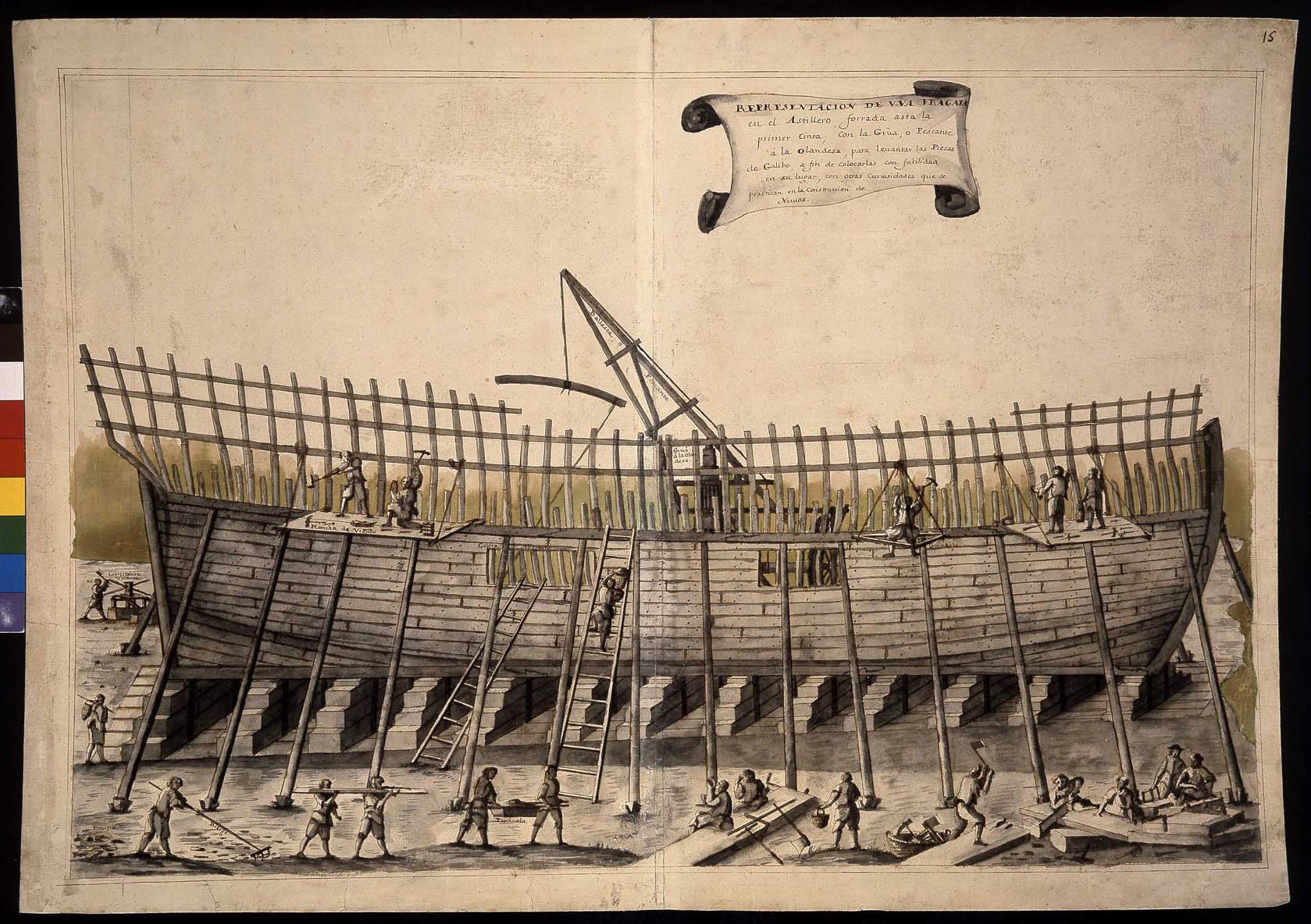
I would like to present some drawings depicting wood, woodworking, and its use in shipbuilding, which were created over many decades by Juan José Navarro y Búfalo, Marquess of Victoria, who was a Spanish military officer who served as the first Captain General of the Navy from 1750 to 1772.

These drawings are taken from his greatest work produced between 1719 and 1756, the *Diccionario demostrativo de la arquitectura naval antigua y moderna* as it is generally known, is a veritable encyclopaedia of everything to do with ships. The Dictionary is divided into four main sections, relating to shipbuilding, rigging, and ship equipment, understood in its broadest sense, and a part devoted to various special features.

The part on shipbuilding includes aspects related to the procurement of timber, from its location, selection, felling, and seasoning, to its arrangement to form the structure of an English-style ship. All aspects of rigging are covered, from the preparation and rigging of masts and spars, through the arrangement of standing and running rigging, concerning types of rigging, to the cutting and handling of sails. A third block could include the equipment of the ship, including the launches and falúas, the tools of the carpenters and other trades of the ship and the shipyard, the materials used for the construction, ironwork, nailing, and everything related to the equipment of the ship. Of particular importance in this section is the study of the artillery and objects relating to the ship's trades, a veritable catalogue of life on board. The dictionary is completed by a good number of particularities and curiosities that can be grouped in a fourth block, which begins with the delineation of the ancient monuments of the ships that were used and have been found, in marbles, obelisks, paintings, and medals, to which can be added a good number of plates relating to the layout of arsenals, machines, cabins, and infrastructures.

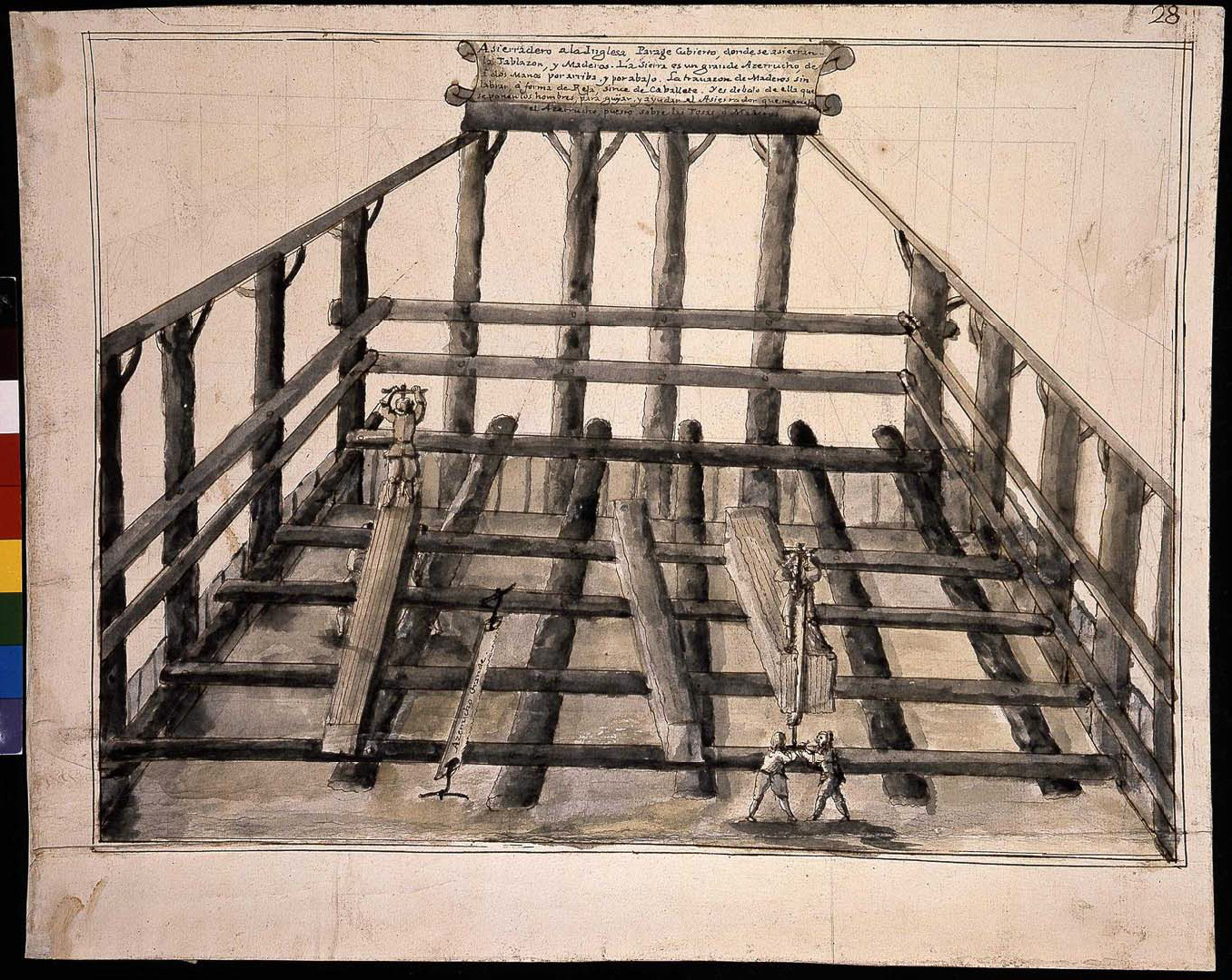
Currently, this shipbuilding album is located in the Naval Museum of the Spanish Navy in Madrid.

Image 1. Representation of a frigate in the shipyard.



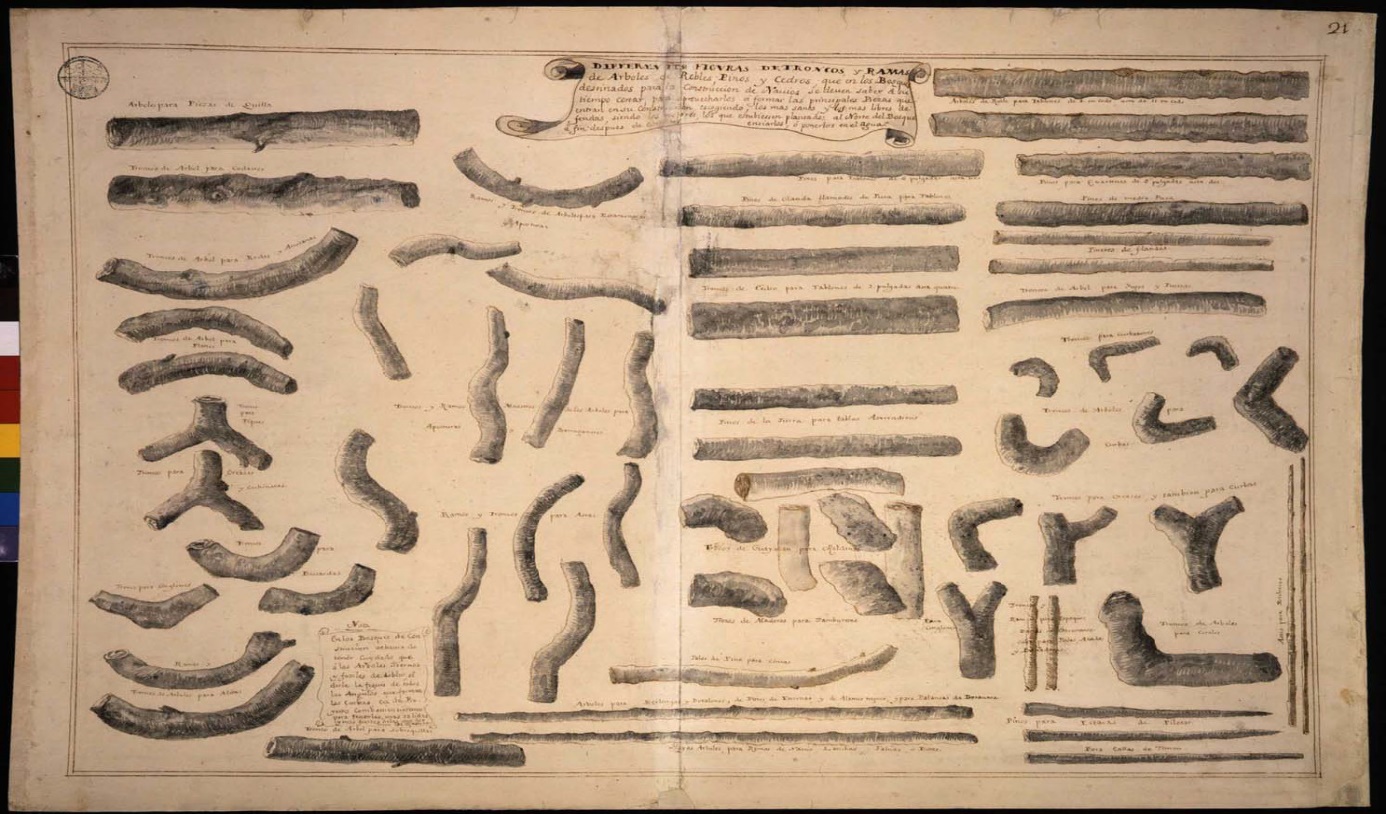
Source: Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario demostrativo con la configuración...* (sheet 15).

Image 2. English method of cutting timber using large saws.



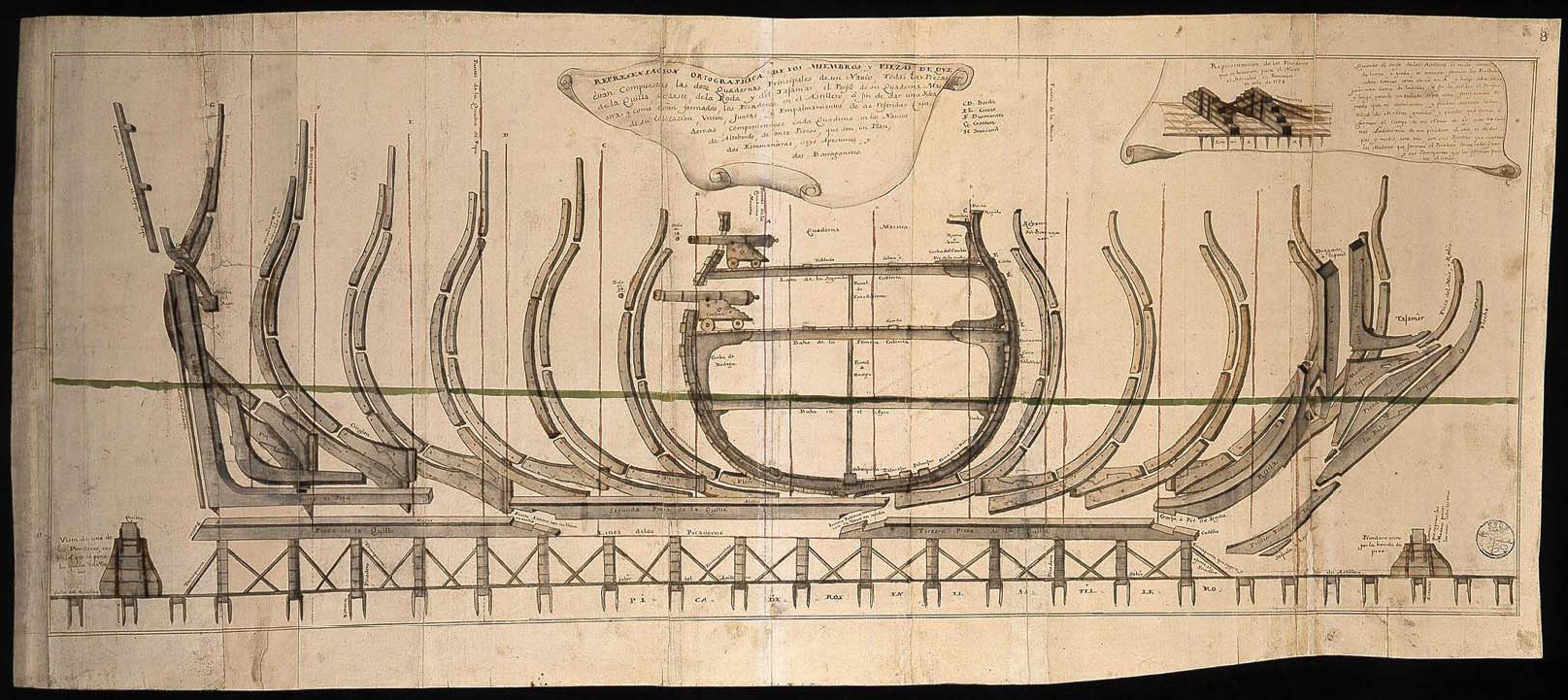
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 28).

Image 3. Different figures of tree trunks and branches to give an idea of how to appropriate them to all the parts that go into the construction of a ship.



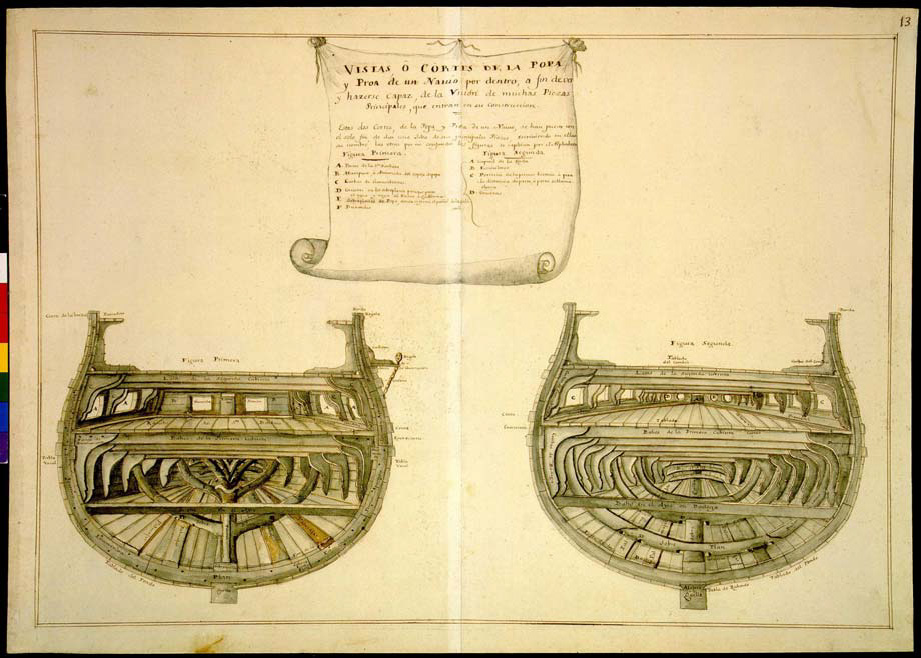
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 21).

Image 4. Representation of the principal parts of which the 12 main frames of a ship are composed, all the parts of the keel, stern and stem, and the members of the main frame.



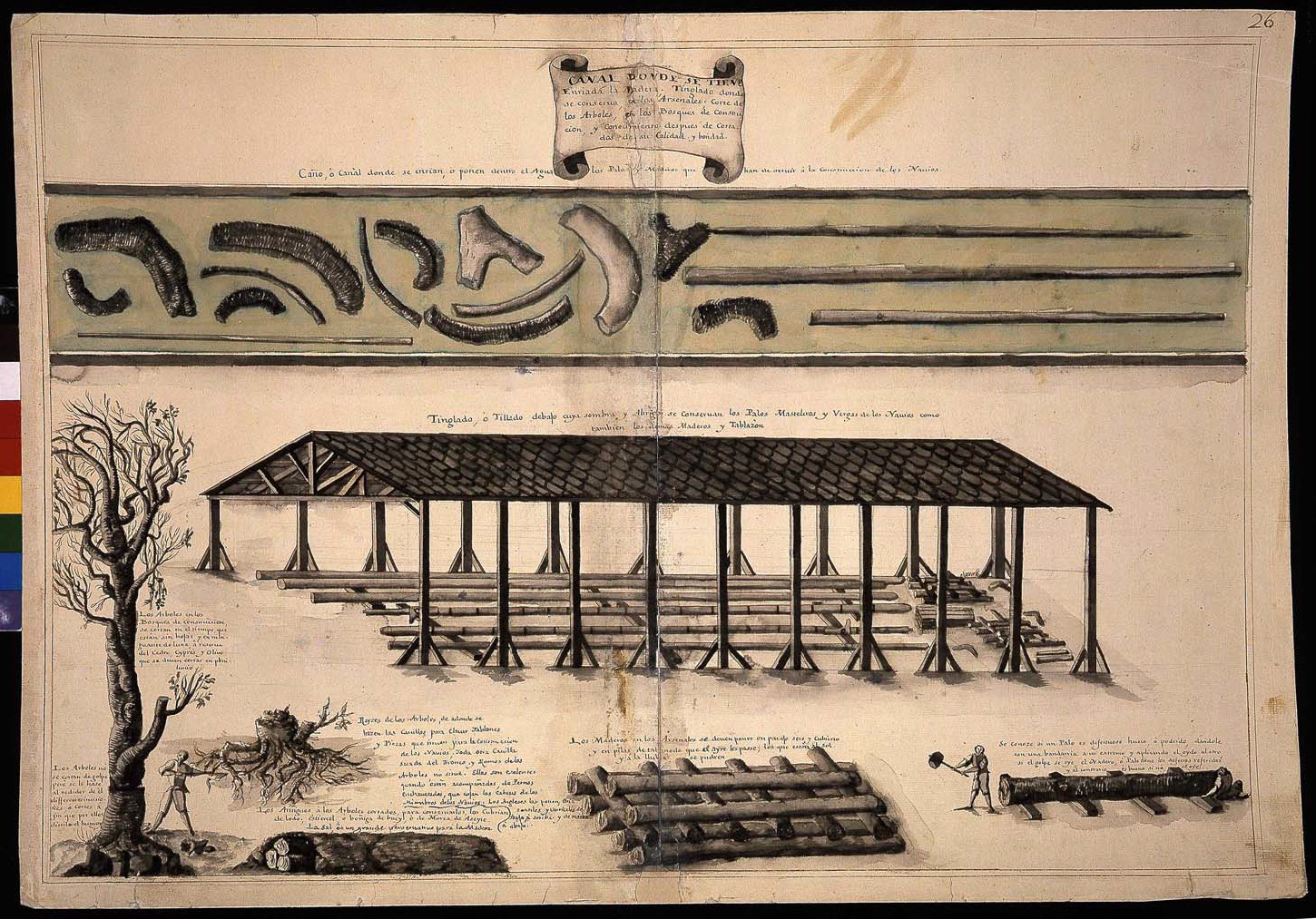
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 8).

Image 5. View of a stern and bow of a ship from the inside, showing most of its parts.



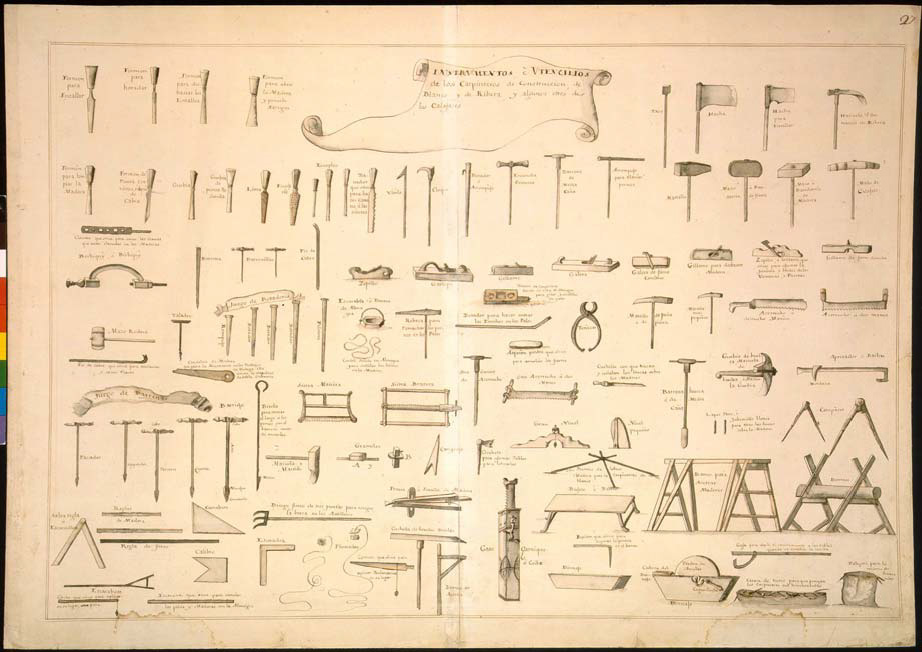
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 13).

Image 6. Preservation of construction timbers in canals, and in sheds; recognition after felling, of their quality and manner of placing them anywhere so that they were ventilated.



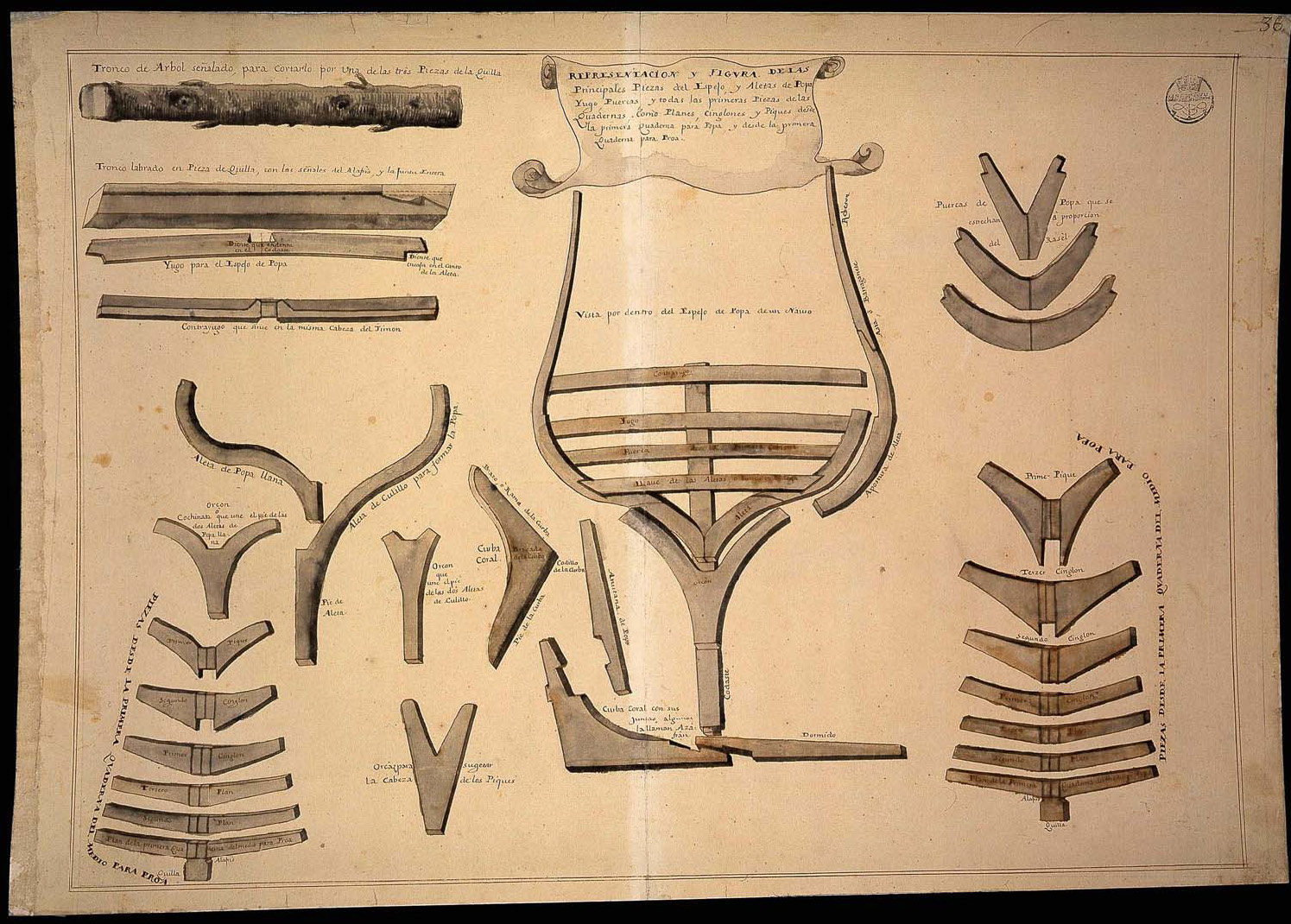
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 26).

Image 7. Tools and utensils used by carpenters in construction and shipbuilding, such as a set of drill, hammers, screwdrivers, chisels, etc.



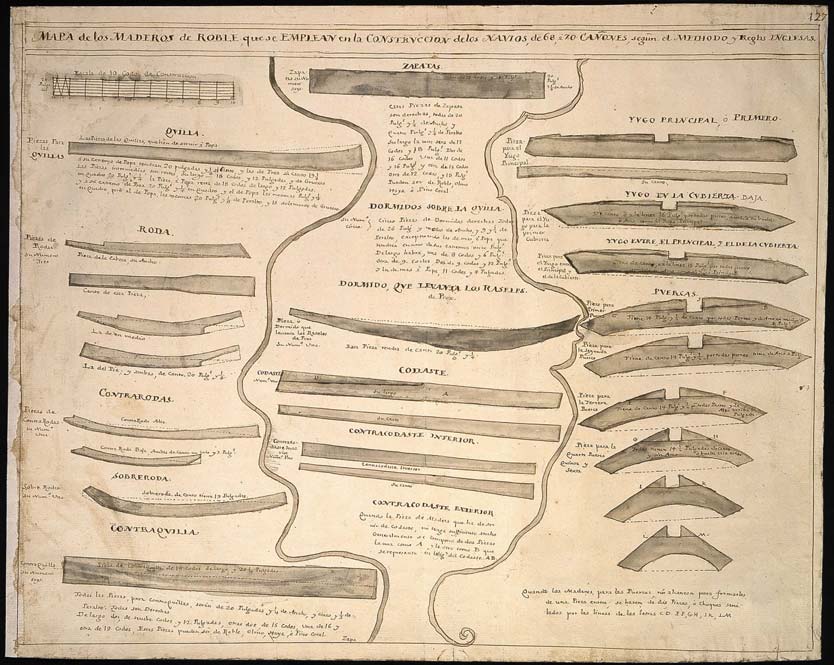
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 27).

Image 8. Representation and figure of the main parts of a ship's transom, fins and plans, bowsprits, curved orcazes, sleepers and hogsheads, orcón and coral curve.



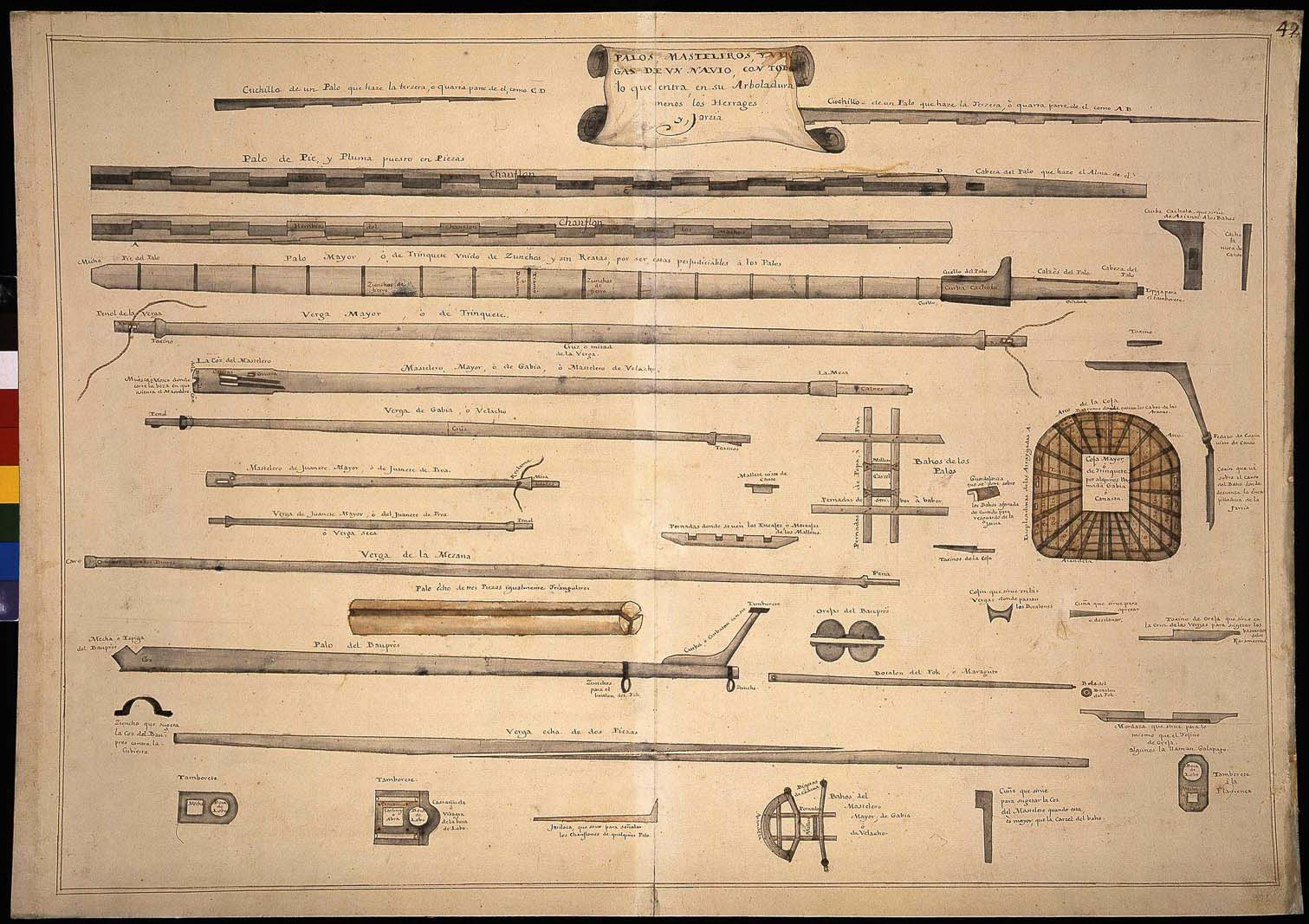
Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 36).

Image 9. Pieces of oak and elm wood, which are used in a ship of 68 or 70 guns of English construction, being the same as those of the frigates, although in smaller proportion.



Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 127).

Image 10. Representation and figure of the formation of the masts of a ship such as masts, spars, spars, bends, bowsprits, one and three-piece bowsprits, etc.



Source: Spain, Ministry of Defence. Archivo Histórico de la Armada sede "Elcano". *Diccionario Demostrativo con la configuración...* (sheet 42).