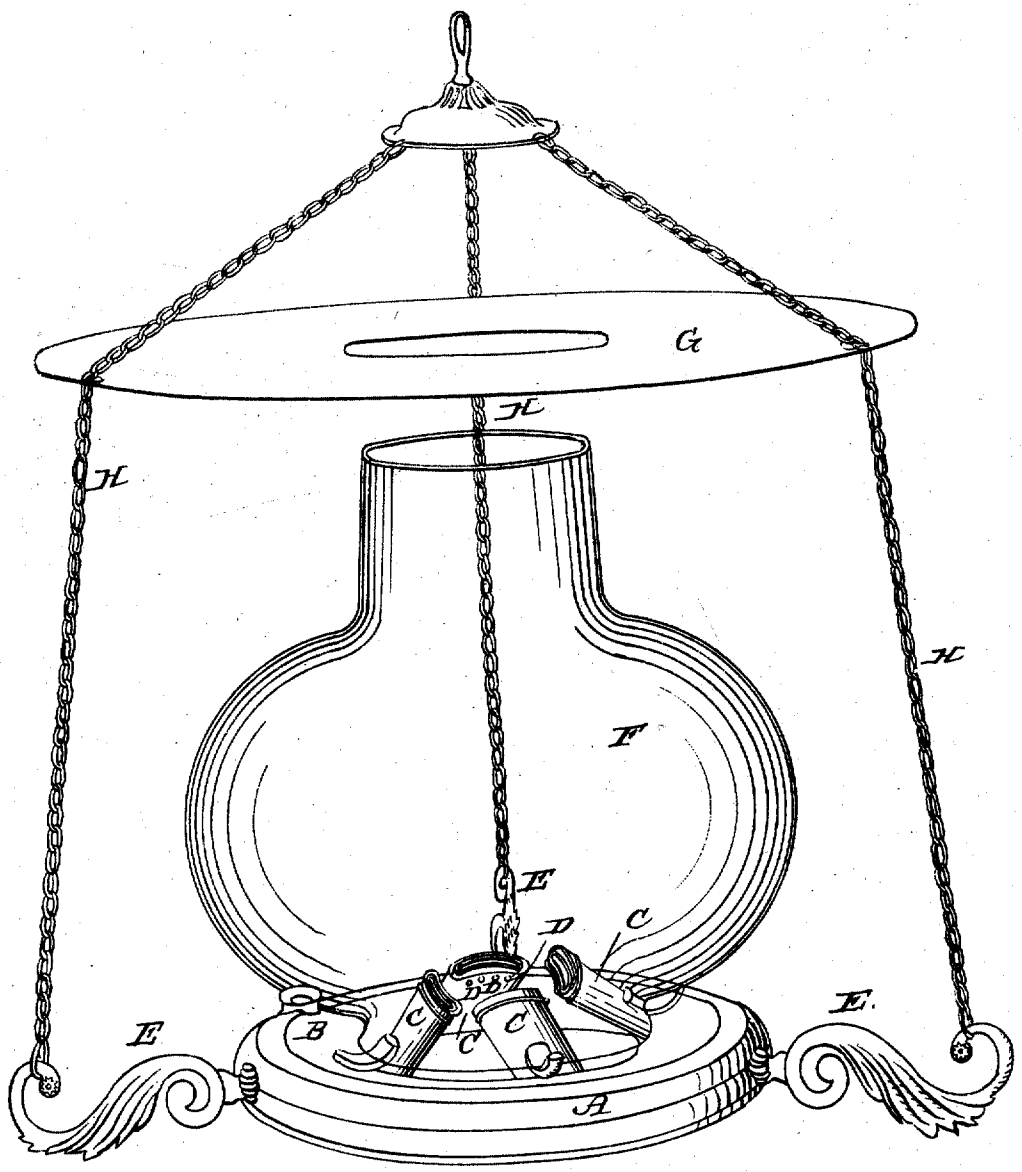
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COUCH & FRARY.

Lamp.

Patented March 13, 1833.



7483X March 13, 1833 339.

Sha Conch & James A. Fray
Letter Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Sha Conch & James A. Fray themselves of their improvement in Pumps for suspension called Conch & Frays' Barrel Pump

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Be it known that we Sha Conch & James A Fray both of Meriden in New Haven County & State of Connecticut & both native born Citizens of the United States have invented a new & useful improvement in Pumps for suspension called "Conch & Frays' Barrel Pump" & that the following is a full & exact description of the construction & operation of the same as invented & improved by us. The body of the Pump is a circular barrel in the shape of a hollow circular tube or hoop about seven inches in diameter from out side to out side & one inch wide a little short of four inches. When suspended the horizontal diameter of the hollow circle or tube forming the barrel is about one and a half inch from outside to outside the perpendicular diameter is about one quarter of an inch less so that deducting the thickness of the shell the hollow of the circular barrel will be a little more than one inch in diameter extending round an open circle of about four inches in diameter. This circular barrel is designed for the reception of oil & will hold about one pint extending freely all round the circle. It is made of block tin or other suitable material in halves or a circular mould in the shape of half the circular barrel in two castings the top & bottom being alike & are then soldered together so as to form the hollow circle. On the top of the barrel is inserted a filler tube with a screw top for supplying the barrel with oil & on the inner circle of the barrel are inserted four tubes for wicks opening into the circular barrel about ¼ of an inch & casing about 1¼ inch in closing towards the centre in an angle of about 30 degrees leaving an open space between the wicks of about two inches in diameter. Each tube one of the wicks or pipes

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with the circular barrel or the main axis of the circular arch forming an opening for each about one-sixth part of an inch thick with suitable openings on the main axis for receiving & removing the wicks on the outside of the circular barrel are placed at equal distances three small or smaller wicks about 3½ inches long by which the Lamp may be illuminated. Over the barrel Lamp thus made, is suspended a globular glass or glass reflecting on the barrel & against the edges of the wicks from the inside & above that & receiving the rays through it a bright & reflective supported by the suspending chains in the usual manner. The advantages of this mode of constructing the Lamp over any other heretofore invented are that the rays of oil is brought nearer the edge of the wicks & they will therefore continue to burn freely & the whole is upheaten. The orifice of the circular opening is also larger & the downward light is less interrupted than in any other and is thereby increased by the full force of the reflector. We do not claim as our invention the central opening merely for a downward light that has long been known & used, but we do claim as our invention the circular barrel as above specified & described & the peculiar form & construction of the Lamp as above described, forming a Lamp upon a new construction & altogether superior to any other now in use more especially for a downward light & is required & for this they do claim Letters Patent &c. In testimony whereof we have hereunto set our hands in New Haven this 11th day of February A.D. 1833

Witnesses
Edwards Baldwin
Jerusha Baldwin

Ira Couch
James A. Berry

C.A.
Chf W.

156 W.M.

(Patented March 13 1833)
(Ira Couch Patentee)