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71 Applicant: **YISSUM RESEARCH DEVELOPMENT
COMPANY OF THE HEBREW UNIVERSITY OF
JERUSALEM**
46 Jabotinsky Street
Jerusalem, 92 182(IL)

72 Inventor: **Yatsiv, Shaul**
5 Hehaluz Street
Jerusalem(IL)
Inventor: **Gabay, Amnon**
109 Hashalom Street
Mevaseret Zion(IL)

74 Representative: **Foster, David Martyn et al**
MATHISEN MACARA & CO. The Coach
House 6-8 Swakeleys Road
Ickenham Uxbridge UB10 8BZ(GB)

54 **IR-radiation source and method for producing same.**

57 A source (2) of IR-radiation comprises an enclosure (4) defining between its walls a sealed-off, electrode-less chamber (6), the walls having at least one portion transparent to IR-radiation, and the chamber (6) containing a gas mixture consisting of

at least one, molecular, IR-active gas, at least one buffer gas, and at least one noble gas. A method for producing the IR-radiation source (2) is also described.

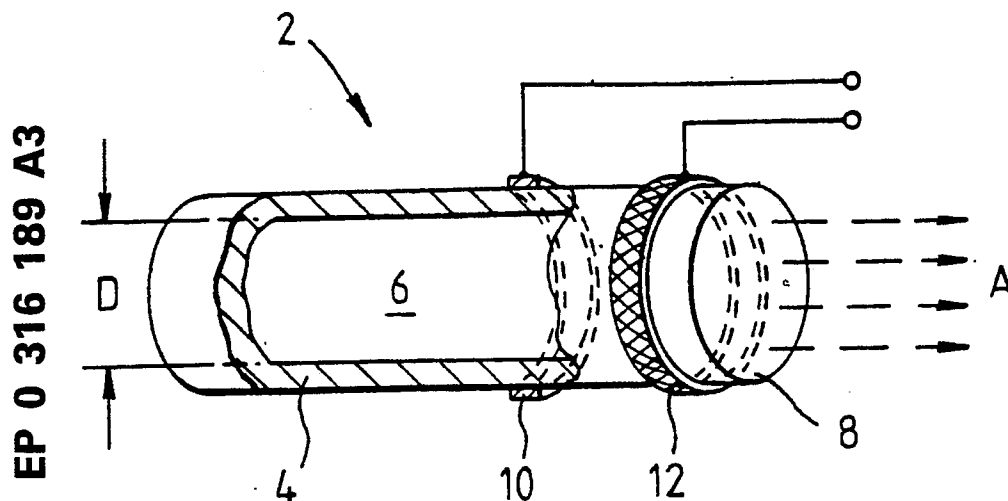


Fig.1.



EP 88 31 0636

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA. vol. 57, no. 11, November 1967, NEW YORK US pages 1373 - 1375; T. K. McCUBBIN et al.: "Infrared Emission of CO ₂ -N ₂ and CO ₂ -N ₂ -He Plasmas" * abstract *	1, 2, 4, 5	H01J65/00 H01J65/04 H01J61/12 H01J61/14 H01J9/00
A	SPECTROCHIMICA ACTA. vol. 29B, 1974, OXFORD GB pages 1 - 18; J. P. S. HAARSMA et al.: "The preparation and operation of electrodeless discharge lamps - A critical review" * page 2, paragraph 2.1 - page 4, paragraph 2.5 *	14	
P,A	DE-A-3617110 (LEYBOLD-HEAREUS GMBH) * abstract * * claims 1, 2, 3-9, 11 * * claim 17 * * column 2, lines 17 - 35; figures 1, 2 *	1, 4, 5, 10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H01J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 JUNE 1990	Examiner MARTIN Y VICENTE M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			